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WO 01/53312

PCT/US00/34263

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, +=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6398	353	1306	Q HQMGPLINECKILLPTVTPFATMRIWLGGLLPFLLLSSLO RPTGSEVAIKIDDFAPGSDFDQYQGCCKVMEKLTQGDYPTK DFAQKNYFRMMQKALANLMQSKVLPQNNTHAVAILPYTLN SMVLSDFRAMASVARTQOQYERSHFKYLYLYLTSAILLLRKD SIMENOTCTVEHYKKKDVHFAITGATIRGQFSTELLKEEA QEFQWOTFTPTICLQAPVQVPSKKKYLIPPELKVIMMSYH PRGMDLQSRSTGNLSTYNCQLLKASSKCPDPIATSLSFSTS VIIFSKSRV
6399	75	1245	PNLETFYGRRCEDSNFTPIHTVCRKRTVSRQVAVSGGTX RRGMADSLSTPLFSPEDRLAKLHPSKELEYEQYQKMAECARN EDLLKLELYKEACEGQHKLECDLQORSEETAEIQXALSDMCVC LPQEREHVLRVLENDRLRIELEDKKIKQLLALVGTADGEVT YFCKEPPIKVTILQKTIQAVGECEQSSESAFKADPKISKRRPR ERKSSSHYQDRIQTLILQVETALQALGEGTKLSREQIBGLIED RRIHLSEIQVHQRONQNIKELTALNHTQGLLEYSKIDFLQLR SENQKEKSNMLEKXNLMMSIKIKQVAVQCKKEDKIGKVLPMVHE SHFASPTIKVMSLKCNVNVVPSGRVGGIPKGLQFVM
6400	2520	1053	KXKICDEVFEVQSALLHNNCGYAHKTRGFPHNIMERKDFETNL DNISVFTLSLTLQKWTLLMLLSGAVGCLHLSNNLETLKK DFLLKLPLELSYLLKMLDPQTLTCLLVQKWKISACTEVN OTACKLQWIDNSQVDAHNNKVKYLKALKKOLECHEAFETS SLIGH SARVVALYKDGGLCTGSDOLSAKLDVSTGQCYGQT HTCAVVFDFBQKLVTSFINTVACWESSGARTQHFRTGAVT SVYDNDLILVSGSADFTVKVWALSAGTCLNTLTGTEWVTKV VLQCKKVKSLHSGFDVYLLSADKYEIKINPIGRINCKLKT SVSEDRSICLQRLHFDGKIVCSSALGLYQWDFASYDILRVIK TPEZANLALLGFGDIFALLEFDNRYLYIMDLRTESLSRWPLPEY RKSRRSSFLAGRASNLGLDGRNDTGLVFATSMFDHSIHLVLN KHHG
6401	109	766	PGAAISRPLDRGCCTGQFPALRMVLVPSFCQPLAFSSVETNEG PFRKCRSPFGPSSSIQSPQASSPPRPNHLLIDTQVFPVTVL VTRSSQEPQASAGQKQKYSCTVCSRVPEYMSYLRHSITHS EVKPFECDCIKGAPKRASHARHSISHLAQGGPFGCPLCPRAF RDAGELAQHSRVHSGERPFCPCPCPRPFBQNTLCYHTWMPH
6402	1196	279	TTSCCGGTQSSAIPVASMFAIICLNALLLPQEQDPCKEG GAKNSNLGGNTSSSSSETCSSKSHGDKFIPAPPSPLKQKE LENLKCISILACAYVALAGUNMALNHADKLLQPKLGGSLKF LGHLYAAEALISLDRISDAITHLNPNVNTVSLGISSNEDQCS DKGENAMESGKRAPQCPQSSVNSARTVNLNLSAYCLRSEY DKARKLHQASAMHHPKEVPPETALLAVLELQNGTQLALQII KRNQLLPAVKTSEVRKKPVQPVHPQIQIQMPAFTVQIK
6403	2	1690	RGHTSVLQGNLQNMYSNHYVIMHLSNNLNTQVOQSNLITNLQ RSVDTSQAIORIKNDPQNLQVFLQAKKIDNLKRVKVSQTL AANNSALAKANNDTLQDMSQNSFTQGMENITISQANEQNLIK DLQDLHDMRWKTAIRFQGLERFQLEFETDVIINISISYTAHH LRTLSNLMWVKTCTDTLTKHTDLSNANTLAMIPLDYSYLR WQDQWMSRLUTSVANLVNIBHEHMDISGLIKNFTILQSP PGRGPRGRDSGQEPGPAPKMKQSGKSGKPGPAGRGSGP PAGPPGRRGGKIKSGSQGKSGRSKPKPGQPGSPSGDPGPGP GKRGPLGPGQPGPGQGLQTVGPGVPGVGRGLGLGCVLGMPPG KGPFGPGPSGAVVPLALQNKPTPAPEKNSCPHKNFTDKCYV FSVEKKIFEDAKLFCEDKSHLVFINTREEDQWIKQVNGRESH WIGLTDSERENWKLDTISPDYKNNKAGQPDMMGHGHPGDEC AGLIYAGQWNPQCDVNMFTICKDRFTVLSLAL
6404	1012	223	AAALAAAFAPGLISVFSSEQLGALALQVQRAACCLAGARA

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6405	1	1456	RPALGSGGSLVSMILARELPAAVAPAGPAPSLARWTLGTCDERLV PFDHARSTYGLYRTHLLSRLPSPSQVITINPELPVBSAAEDYA KKLRQAPQGDIPVFDLLTLGVGPDGHTCSLFPDHPLLQREKRI VAPISDSPKPPQQRVT/TLPLVLAARTVIFVATGEGKAVALKRI LEDQENPLPALVQPHQTKLWFLDEAAARLLTVPFKHSPL AALPHPTPAHKGREGTGSSEBPAASMTVRLVAVATIRNHRFR TAQSRAPVGLSSGLFNHSLQVQQCCORNLSEHSMHLLQGE AGSVYPGQYVAKS PDEAYATKKLGSKDVLVGLVAGSGKGT FESGLKGGVIVFSPREAKAVSSOMIGKLPYKCTGEGKRICNQ VLVCERKYPREYYTFAITMERS PQGPVLGSSHGVNIEDVAE TPEALIKEPIDIEBOIKKQALQLAQKMGFPNTVBSAARNMVK LYSLFLKYDATMIBINPMVEDSDGAVLNDKAIKINPDSNSAYRQK KIFDLQWQDERDERDKAAKANLNYIGLDNIGCLVAGAGLAMA TMDIILKHGGTPANFLDVGGATVHQVTEAFKLITSDKKVLAIL VNIIPGGINRCDDVIAQGITVMVIDLSIKIPVVRLOGTVRDADA LIADSGKLITACDLDEARMVVKLSIEVTLAKQAEVDVKQLP I
6406	1036	167	HPRNQRGEDITPEAPFYSSGRYDSIKTIVS/GCEDRLTVGRAPTAD DDDDDDHDDHEDNKMDSBGMDPERLKAAMVRLFVDBNLRM VPI SKQPKKIGATISGCSKQFPFQERAKK IRTLKS CRMK KQMBWETPTPHLTSAMAKENLAAACGISTKAAKRLLEIYQ SSQDEPITADKQHSRDSAAITSTSYSLPASSYODPVYAKGLN YSYRGYALSSNLQPPASLQTNHNSNGESGERALASRPAPSV CRAALGSGMGKGRQRPVMEKCLTA
6407	492	150	VGLCLAVSQTVLAQLDALLVFGQVQALQSLTSPQHVITIDVGV SWYQQRAGSAPRYLLYRSEEDHHRPAIDPRFSAKDEAINAC VLTISPQVEDDADYCSVGYGSP
6408	1458	503	RGCITSSQAMRLFGVGTGFMNRIKXCFPCSOPITPQGHMFPVR NDCKVFRPCKSKCHNFKKKRNPRKVRNTKARAAAGELTVDN STSEPKRRNRPKYORELWNKTIIDAMKVERIKQKRAQPIMNK LKKHKEQKVQDIKEVKQNIHLIRAPLAGKGLQLEEMVQQLQE DVMDEAP
6409	150	446	RYALMMLRCPTCDRLCGGCTAPAPPAICGIVLQVMPSCDFGP GPACLPTITRYSYLPFRCHRTYSVCHGRAHLAHDHLLISKSPQS HGRAYLFSV
6410	85	607	RPGPAGCVACLGQSSSPKAAFPAGSACLIADSCPLLAPRC AISGLPNCITTHPLNTAAGVMIMNAPILLCBAPPCQPIEFA NTVAEKVRLRSQQKAVPYQSMVPTVITSLTLTLGNAIAFA TGVLYGLSALGKGDAISYARIQOQROQDEKLABTEGEL
6411	302	772	RLSHASSLNEDPFGSRITVYKDLPAKPKTDSLAHCTSDCRM GAGIAVLFPKKFGVQBLNQKQSGEVAFLKRDGRYIYVLTITK KRASHKPTENLOKSLRAMKSHCLKRGVTDLNPRIGGLDKLQ WENVSAMIEVFEATDIKTIVYTL
6412	61	1709	RPVTSFSLPFGSGGRLGFTWILGERSLREVSAAKQGGITPTTEL CQKCLSLIKKTKPLNAYITVSEVALQAESEKRYKNGQSLGD LDGIPIAVKDNFSTSGIETTCASMLKGYIPPNYATVVOQLDQ GALLMGKTNLDRFAMGSGSTGVFGPVVONPNSYSQYREKRRQN PHSENEQDMLITGGSSGGSAAVSAFTYALAGSDITGGSTRNP AMRCGLVQFKPSYGLVSHHGLIPLVNSMDVPGIITKCVDDAAIV LGAAGAPRDS TTRHEPIKPFMLPSLADVSKLCIGTPKSTYV PELSSVQSLMSKAALEFSEGAQVTSVSLPRTYSIVCHVLC TSEVANSNARFDGIQYHRCDDIVSTEAANYAATKREGRNDVVRG RILSGMFPLLKENVNYVKAQKVRRLIANDPVNAFNSGVDFLL TPTTLSEAVPYLEFIKEDNRTSAQDDIPTQVQNMAGLPAVSP VALSNQGLPTGLQPIGRAFCQQLTVAKAFKFKQVQFPVIOLES IMDDCSAVLENKILASVSLKQ

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6413	2	885	HRPRCAGMAASLWMDLEPYMDENFTSKAFAMGETVMSVKTIIR NRLTGIPAGYCFVEFADLATAEAKCLHKINGKPLPGATPAKRFKL NYATYKQKQDMSPEYSLFVGLDTPDVDGMLYEFFVKVYPSCRG GKVLVDQTGVSKGYGVFKPTDLEBQKRALTBCCQVAGLGSKPVR LSVALPKASRVKPYEYSQMYSYSYNQYQQYQNYAQNGYDQNT GSYSYTPQYGTQSTWQTIEVGDDALDEDFMPQLDVTBEANKFP MECSBELYDALMDCHWQLDVTYSSEIYAM
6414	1	538	KGRRAALLVRRFPCKRPRQPARFSSRAITGPRSPGIATSIQV SPSVGIDGVPAEKIMAGEPENTYILRPVPGQRFPSVVKDCIHAF LKEELANARYSPPEMPQLTKHLSBNIKDLKKGFORVYQVQVQV VIGEQRGBGVPMASRCFMDADTNYTHVFNDESLFCVVAAPGC FYY
6415	2	1168	FVQRQSSSHRRACGLCEARAGGSESPGRASVAGWNGAFRAP FIEAAVAGLGAGSGKRRRGMKNPVGHSRDKGKKTINHDEMBDYA ENEGSSSEDEDTESSSVSDGSSSMDDEDCEERRMECLDMSEN LEKQFTDLKQLYKERLSQVDAKQEVIAKKAPEYLEPLATLQE NMQIRTKVAGIYRELCLSEVKNKYCEIQASRQHCESKLLLYD TVQSELEBKIRLRBEURHSIDITSELWDELQSRKKRKPFPWPD KKKPGVVSPPYIVMYLQDLIDEDWTIRKMATLGPVERKTEP SVKLSNHLHSARSEBGRLYLDGEWYIRQGLICIDMKDCBFTSAV ITTINDEBVPKRDGSKSLYISGLQKSSIKGS
6416	410	1519	ELAPADLETAKCAPILLRSSTSSNVEVTCGKWAISLTQELSLHL GLASKTAANGTIGTLRTFLNPSVDKDAQRLLRATTCQGVDRSAI VDVLTMRSEQRQLISRNPFQERTQDLQSLQALNSGLERIVM ALLQPTAQFDAQELRTALKASDAVDAIIRLATRTPTQLQBL AVYKHNFPQVEAVDITSETSGTLQDLALAKGGRDSVSSIIDY NLABQDVQALRABQSPREETNPVPTQNRNPHLIRVFDQYGRS TQGBLEBAVQNRFHGDAQVALLGLASVIMTPLYFADKLQALQ ETEPNYQVILIRILISRCETDILLSIRAEFRKPKGSLYSLLQDAV KGDCQALLALCRAEDM
6417	1	845	RGSRVLWSELEGGAGGAGWASSILNARMNNEFATAFVACVLS LISTIYMAASIGTDFWYEYSFVQENSIDLNSINDEFISDEAD EKTINDALFRYNGTGLWRRCITIPKNNWYSPPERTESPVVVT KCVSFTLRQPMKFPVDPGNHNSGIDLLRTYLMRQGLFLPVSL GLMCFALIGLOACICRSLYFTIATISLHLAGLCTLGSVSCYV AGIELHQLKLELPDWNVSGPWSFCLACVAPLQVMSALFIWA AHTNKEYTILMKAYRVA
6418	2	662	TRTPRRPPGLGAAGVHAGARSTSTPAGASPAALYQLPFPFAH TPAPPPPPPCGGIACHGEPAKFYGYDNLQRQPIFTTQGBELVQ YPDCKSSNGIGEDPHNLQSSSPQMFPWMPQAAPGRERRRQ TYSRFQTELEKEFLENPLYLTRKRRIEVSIALALTRGCVKIFWG NRMKHKKENNKDPFVSQGVKDGSTVKSQRLEREDRAAGLTN
6419	1	973	PGRPVRVFNILNKSILQEFCTRSITQIPANNKSTAMSKCPTFF MARISISTSGPLDKEDTGRQKLISTSGSLALQCATDGLGLEKHL PSPDPVTVYLSPLVWVKLESLLENEGDHATVADFDVHHPIV FNNLVYFRELDPNSNLPLGLLSSEHCNKYSKI PRHCSSEDSKY VLIQMLNDNMKIQDPCQPLYLWMAHTQKPYVHVLQKSDNSF NGELLSKMSVSKXNDNVYGPMSQLETLNCKPFPKQRSLYRSI LFLSLVAGHNDILDAFDKRYKWAYDLRLEPQVSKSTHNCURFP STOVNCKKTFGSPYL
6420	207	1187	RKMTDKQTCGVGDSVPYMTCLHLLETFGVEQLEDFLNFAN YLVWVPTLILLILPYPTIPLNLTITPLHLYKRNKVLKAYSH NLNDGARTVATLMDGHAAMVHGVHVSMEKIPEDGPALITPYH GAIPIDIFYFMAKIPIHKQKTCRVADHVFVKIPGFSLLDVFPC ALHGPKEKCVTELSESHLLAISPGVRRRALISDETNYVNGHRR GFAQVAIDAKVEIIPMTQNTREGRFSLGGTRLFNLYKFRFPY

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6421	1844	352	FAPMYGGFFVRLRTYLGDPITPDPTAELEAKETNAVALD KHQRI PGNIIMALLERFI WALSRLRRQPERMSNKLSPHSPHSVLRSEPMASSPAVLRARL YQMSLKSSAQFLGS PQLRQVGGIIRVPARMAATLILEPAGRCOW DEPVRIAYRGLAP SQPVILRASLRDEKALQAFHARYRADTIGE LQLERAPALGSSPAGLEPMGLLMALEPEKPLVRIVKRDVRTPLA YELVELCHDDPPDRLLCQTRHERYFLPPGVRRSPYRVGRVGT IELPPEPGPPFGIVDMFOTOCLEFASILLAQKGFVAMALAY NYEDLPKTMETILHLEYFEZMMVLLSHPEYKPGCVGLLCTSKG ELCLSMASFLKGITAAVINGSVANVGGTLRYKCEPLPPGVNIR NRIKYTHDGYADVIVLINSPLQEPDQKSFIPVERAESTFLFLVG QDDHNWKESEFYANBACKRLQAHGRKPKQLICYPETHYIEPPYP PLCRASLHALVGSPIINGGSEPRAMAMQVDMKCLQTFFHKLHG GREGTIPSKV
6422	181	2133	BENLSWFOEFWDIAGEFYWKTPCGSGPFLRYNVDTGKIFIE WNGATTNICYNVLDRNVHEKLGDDKVPFWBGNPEGTTQITY HQLLVQVQCSNVLKQGIHKGRDVAITYNMIPELVVAMACAR IGALHSIVFAGFSSSCLCERILDSSCSLLITDAFYRGEKLVLN KELDALQKQKQEGFFPRCCTIVVKGILGRELGMGDSSTQSPPI KRSCPDVYISWKGIDLMWHELMQEGDCBCEPWCDAEDPLF IL YTSQCKPKGVVITVGGYMLVAVFQYVDFHSDVFNCTAD IOWITGHSYVTVGLPAMKASVLEESITVDFDARLJNDIKK VTKFYTAPTALRLKPKGDEPVTGHSRASGLQLGTVOEPINDEA WLYHRVVGARCPDIVFTNQETGGHMLTLPGLATPMKPGSAT PFFGVPAPILANESGEELGEAEAGYLVFKQMPGIMRTVYGNH REFETTYFKKPPGYVTDGQQRDDQGYWITGRIDMLNVS GHL LSTAESVESAIVEHVAABAUVGHPHVPKVGECLYCEVTLCDGHT FSPKLTTEBLKKQIREKIGPATPDYIQNAGPLKPTRSKIMERV LRKIAQNHDIGMSTVADPSVISHFSHRLCTIQ
6423	614	1237	ANLKEIPRDLPPETVLLYLDNSQITSTINRIFDRLHQLRVNLS KHGIEFIDEHAFKQVAETLQTLDLSDNRIGSHVONAFNNLKARA RIANNFWHCDCTLQQLVRSMAHNEHAINVCKTESVLOEHACRP FLNANADALDLMLPKETTYAMLVWTFHFWTHVISTVYVYVSNQ QEDARHLEFLKSLSPKQKQEDDITTV
6424	1	1188	KKVSWPVAAWVKSCVLEKRYETIDKRLPFRGSSGGMGYZRL GGGGQGDVVAAHWRMTKQLKDRYPRGRVAGVQNSKISA LKSGSKGKWEIPVPGVISVTEBNGKILGELNKENDRIWAGQGL GGKLLINFLPLKGQKRIIHLDLKLIADVGLVGFPMAGKSSLLSC VSHAKPAIADYAFITLTKPELGMKIMYSDPKQISVADLPLGLRGAH MNKGWGHKPLKHIERTRQLLPVVDISGQLSHSTQVTRTAFETII LUTKELLYKEELQTKPALLAVNMKDLDDAQKDFHEMLSQLQNP KDPLHLPEKNMIPERTVSPQHIIPIISAVTGBIIEELKNCIRKSL DEQANQNDALHKKQLNLWISDTMS STEPPSKHATVTSKMDI
6425	1850	1144	LAMGGGGIPIELTKREESQSRHVLPASTEVSNSLQKSNNGP LLYG LAGGTIVAVYAVATPPVTPALRKVCLPFBVATNKQIENVKMLR CHRGSLVDIGSGDGRIVIAAAKQFTAVGYELNPWLVNYSRYRA WSGVHSGSAKFTISDLNKVTFPSQSNVITVPVQMMQLBKLLS RELEDARVACRFPFFHMTVDHVITGSGIDVTWADASTFPGRE KRCPSTHFQIQ
6426	30	565	SRGAVGGSVAGGSRUDTGGRRDTAAKCTFSFSPETLEDLR LIAHFAAKRDWQPHOPRNILLALGVEVGIARLPQNKTEGSP PQGWSPRERAAQELSDVLTYLVAALACRVDLPLAVLSKMDI NRREYFAHLARSSSRKYTELPHGAISEQAVGPADIPCDSTGQT ST
6427	145	959	AAGWGPHVPRAGHGVSMTCRLVNLVKGMLCPAYASTGVAVETK NIREYVRMMYIVFALFAAEIVTDITFISNFFYYEIKMAFVI

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			<p>MLLSPTTGASLLYRKFFVHPSLSRHEKETDAVTVQAKRSYETV LSGFKRGLNIAASAAVQAATKSQGLAGLRSS7MCGLRSISDA PAPAYHDPFLYLEDQVSHRRPPIGYRAGGLQSDSTECEWSITFA VPAPAPRPREKPLIRISQSLRVVTRKPPVREGTSRSLKVTRKKT VSSDVDS</p>
6428	1982	444	<p>SSGSGKSDHQEVVIDIGTSLKLLDLVDRNRKSLKWSQDYLITR EKIMAAIQDPSEEEIAGLSSSTHYFKLALDLDLKGFEAST KNI FGRYSQRKMDQWQELIALYEDKNTYLVLESLGVNRYWHEI PSLKKQIAKQQQLQRYSRKEEBCQAGANMRQPFVSCQKQVGI TGENVIRGELLALVKDLPSQLAEIGAAAQCSLGEAIDVYQASVGF VCESPTQVLPMLRFVQKRNSTVYEWRTGTEPSVVRPHLERL PBQVAEDAIDWGLPGEAVSEGTDSGISAEAGIDWGFPESSDS KDPGGDIDWGDVAVALQITVLEAGTQAPGVARGPDALTLEY TETRNQFLDELMELEIFLAQRAVELSEADVLSVQFGLAPALL QQOTKEKVMVMSVLELDIGLKLTSIQQLHLMILASPRVYDRVT EFLQKLEQSLALLKELMVQKQALAEQAALESPLKDLLLEK TKELQKLIADISIKRYSGRFVNLMTSL</p>
6429	3413	3442	<p>EPSSWTAAPRGFLAAHFLAAVQEDDRRLSFDRIKVFANGTL VVRSVTDKAGDYLCVARNHVGDDYVVKVVDVVMKPAKIBHKEE NERHVFQDDLKVDCAVRLNPFISWLEPDSLVNMSGSDSDS GORTKRVYVFNIGTLYPMVQGRSEEDVTCFAVGVYQKMDRVR VVVUTAPATIRKTLAVQPPYQVVTVACAEKEGEMKVTWLS PINKVITPSSEKYOIQDGTLLICKAQRSDSGHYTCLVRHSAGE DRKTVIHNVPQPKINGWNPITVREIAGGSRKLDCKAEG IPTFRLVMAFPEGVVLPAFYQNRITVHGNSGLDIRSLKSDSV QLVCMARNEGCEARLIVQLVLEPMKEPIFDPDISEKITAMAGH TISLNCSAQCTPTFSLVWVLPNGTDLQSQQLQRFYHKADGMHL ISGLSVDAGAYRCVARNAAHTERLVLKVLKPEANKQYHNL VSIINGETLKLCPFPAGQGRFSWTLNMGHLEGPQLGRVSL LDNGTLTVREASVFDAGTYVCRMETIEYQSPVTSIPVIVIAFPFR TIESEPTVITTRPGNTVGLNCHWAGIPKADITWELPKSHLKAG VQARLYGNRFLHPQGSLLTQHATQDGAFFKCAKNILGSDSKT TYTVHF</p>
6430	1946	602	<p>RTVSTGLRRTLLMSNVAQSSTRQDTIITCSDEGAGPGGGR AMLEMAEDSPEDPTPLKFPSTQPEKKRRRTITDPPKFCPSVLA YAGYIPISKEEDWPAQSSSPLRGEASADSDGWSAPSRLRTI QTVFKKAKSSKRRAAQAGPTQGFPRSTSRQLQAPDSATLLEKQ KLKDSLFDLGGFKVASPLSPSTSLTSTRKPAALTPVPLSQGDL HPRKDKKRNKRLPGAGAGKVLRRPRPTPGDGEKRSRIKSK KKKLKCAERGDRLPPPQPPAPSDTDESESESESESESESEMA TVVGEAPVVPVLPTEAPRPAFVHEPEGVPPADESEKVGSTE TSQGDASSSEGRMVDIEDIMVSGDSDNLTICYCRKPFAGR PMTECSLGGTWIHLSCAKIKKTNVDFFYCQKCLRLPBARRLG GPPKSGEP</p>
6431	3	605	<p>WNNSYNLPAYAPYLPCKRCAQMDGRGGGAYAGKNEATTAGVGR LEEBALRKRSLKALREKTRGRDKEDCEGPKTKHRLRESESEBHX RELALANYVDEDELLKRRVPAKPVANEEKVKQLEAAKFPVPV IREVDIANLAPRKDNDLKKDPAKLSKLRRTQRAASLIRER LAGQDRLASAVDAATZOKTCDSD</p>
6432	56	1692	<p>GLGTGMSRISKQNETTEFVYVAYPRGTGTLSDPEVQVQFPE DYSQDQVLOTLTKECFPPYVUSLTVSQVQGHFTVLITDIDSKOR PGFCRLSSGAKSCPCILSVLPWFVFPYKLLNIIADYTTKROBNQ WNELETTLEKLPIDPDGVSVHLSVHSYFTVPDRELPSIPENRN LTFYFVAVDVNNMLHLYASMLYERRILICSLSTLTACIHGSA AMLYPMYQHVYIPVLPPLHLDYCCAFMPYILGIHLSLMEKVRN MALDDVVILNVUTNTLETFFDQLSLFNDVILSKNRLKKVSTT</p>

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6433	1524	484	TGCGVARAFKAQAAPFGSYRNALKI EEEPTTFCREAPVSHYR SGAMQRFQLNATQQLFKQSPIDGRDLNLSGSGFSDVFEESINM GEYAGSKLYHQWLSTVRKSGGALLNTVTKANPAMKTVYKFDI AINGCAPTPFKQI.PKTAAPSPLVKAADPKLREDRRPITVHFGQVR PPRPHVKRPSKNIAVEGRRTSVSPSQNTIATPATLHILQKSI THFAAKFPTRGWTSSSH
6434	40	2002	APVTNKKVEFARDKSGSALDAQDQPKRPALPFTLCESGWSANTA PTPTPPQPGWCLCGKDPFKSSCQTPGREKERRIATVHSGCSFLMLL LPLLLLVATTPGVPVGAITDEERKLMVELHNLRAQVSPFASDML HWRMDELAAFAKAYARCCVWGINKEGRGRENLPATITQGMQDV PLAWNEHHHREHNLNLAATCSFGQACCHVTVWAKERTIGGG SHFCCKLQGVETNIELLVNCPVPPNNVKKRPYQRTCSQCF SGYHCKNSLCEPIGSPEDAQCLFYLVTETAPFRATPSDSRSGX ARGDPKPSVSGINSGPHVWGLLGLLGLLPLVLGIGT
6435	2227	657	HPQLNFGNADPTQMGSLMLLQAGHEHALTEPVEFGTCCPVUSE SPFLRQKSPLPQFAEISSSTSHSDSTKCCUATLQFABEISN TSOLGQARPVKRCGKSAALQFARMCLASGGMKMEESKLIKAKES DGGRIKELKSGKEKEIKMKRTDETRLQKAEPEKSAKENLRDS KELRNFEALQIDIDIMAKHMDPKETRKSEEDHCKSHFDPFSY SASRKIIISLVPSRKDHMCHPHIGIMI EDPAALNKPRLKIKKKK KSNDRGKNSPTPKKCKKRSSESSIESVITYTSAVAKGDWG IRLKIDTPRKVKVTSSSGSGILLKADPKPKVSRSKKSKSEKS SDTKESRPPDFTSISASKNISGQTPSKKABLPFMEDALPVS LSOQAQPEDSDCHRKISTCGSRKSEKSCGALYKLTAVSGMILS LRAVDNRGKSSGKMGNSDHEGCMNKSEKNTSPSQSGTSGSKPKFK TKPKEDCLLSAKLDRFEKKFNSLPQYSPVTFDRKCVDPVRKK KKTGNVSSEPTKTSKSGDKMSNKQLFLDAIHPTAIFSEDRIKT MEPVHKVQNIPTSFNTPEPTTARTFGGQPKESKENPEFDYSPCC QDTORGYHHEEVLWMTNLMNNCGGVYLKQLRHTANTNA
6436	1295	341	ALQRDAAYAYAPTEYERFLCESTVSQCTNSIELLQTRPLALPE VVKSQRPLQRQVHLGRPASOPTVIRGITTYKAVUSEEDIEE QDEFFSGDNGVDLLIKDQLLRHNLMTSVTRPAATRGHSTPA VSDLMARPAWSSGALPQPSSTDPDLANASVGFTLQTTVSVD PTTRESVLQSPQVATVAHTAQQGPAAPAVSPREALKRAM RTVPVPEPTTVRDSLQDAPAGKGTTPASPTSPSEEDIRNVI GRCKDZLSTITGPTTQNTYGRNBSGAWMKDPLADERTYVITYNY GNTLVEFRNLNFQKGRWNSYKLPYSWIGRHGVVYNGAPVYNR AFTRNIIKYDLQRYVAAMHLHDVAYEATPHRWQHSVDDEFA VDENGWLWLYPALDDGFSQSEIVLSKLNAAALSTQKETTWRGT LRRNTYGNCFVIGVLYAVDSYHQRNANISAFDTHNTQIVFR LFPENEYFYTTQIDYNNKORLLYANDNGHQYTHVIFAY
6437	1828	360	GACRPFVRQDDPSQDFYALAGACVITHMVAQAVARTLHCVM YPIDCVKTRMQSLQDPAPARYNRVLSEALWRIIRTESLWRPMGR LNVATGAGPAHALYFACYKKLKTLSDVILPQGNSHIANGAAGC VATLLDAAHMPAEVVKRQKMTNSPYHRVTCDCRAVWQNEGAG AFPRYTTQLIRWEPQAIHFMTTYEFLQHRHPQKRYNPSSSHVL SGACAGAAVAAATPDLVCKTLIRFQSHLASHIHTHTGMS AFRTYVQGVGTAVFRGVQARVYIQTSTALANSVYEFKLYLT KRQSEWRACK
6438	1828	360	PPAPAPASPAPARHTTRARGHLGSGSAPFLQAVPLQTNMVK LIHTLADHGDDVNCASFSLATCSLKTIRLRLSLRDFLELPH SPLKPHTYAVHCCCFSPSGHILASCSLDTGTVLNTNTEKQMLAV MEQPSGSPVRVYQSPDSCLASGAADGTVLVNNAQSYKLYRCG SVKDGSLAACAFSNGSFFVTQSGQDLTVDDMKRCLHSEKAH DLGTCDFSSQPSVDEGQLQFPRLASCGDQVQKINTVSPH ILGFLKLYKSTLSGHCAPVLACAFSDHGMVLSGSDVSVIYVD

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			TNTNLTILHTQHTRYVITTCAFAPNTLLATSSMURVNIWQFD LETLCQARSTEHQLOKFTDSEEDVSTWLCADQDLKDLVGIFQI NNIDGKRLMLTKESLADLKIETSLGLSRKVIKIELRLTKVKS LSSGIPDEFICPTIRELMKDPVIVASDGSYSEKAMENWDPAKRN RSSPP
6438	109	901	FVQILRAKMFOTGSLIVFVQGLLQRTAQFGSLFVFDLQTLPIV NVALPSTGLACSLTVALNSGTLSSGILLILENLPLOLTKPG GQTSGLGLGLLKVTSVIGPLNLTIDIKVTDQDLLEGLVQSP DGHRLVYIIPGLIKLVQVTPVGLASLLRLVWLDITAEILAYRD QKERIHLVGDCTHSPGSLQISLIDGLQPLFTQGLDLSLGTGLN KVLPELVQGVNCPVLNVEVLRLGLDITLVIDVNMMLHQLQVTKV
6439	23	412	SIQTASALTTHMASQSQGQIQLQAEKRAEKVADRRKRRRL KQAKEEAQMEVEQYRREHEPQSKQKQANGSQGLNSAEVEQAT RRVQGVQSSQQRNRRVLQAQLLMVQVDFQVHPNYRISQ
6440	3	517	RARNNSDMDGLPGLVLESLTALQIWDSPVYVQDQRFQGNRT IKLLTGSSYKVEVKIKPSTLQVENISIGGVNPLEKSKSPDGD RVVYITQYTDTEGVPTPKSGSERQPIQITMPTDITGTFVQVQKF VNYHKRHCQWGSFVSIVIEYCKENETSLMWNVKSFL
6441	234	1373	KSGGLRRKQFGRSAANGVEELPFGNEIKFAANLIGSVGDALY RNVCKENSTVGNKIQERLRSQGLDLHLVSPGEWVPNDTMIHI ATBALTDVWCLDILVENVRKIVIVELPERPDPATIEGCG AQLKPNYLLAWHTPFWKSSQSGFATKACNGLRWKPERLET LIFVSVCCRMNHPHTFLGSLCTALPVSFAAQGLKELVQWCD MLRAVPLAREVCRITRITAEYQEHWFPEAKWQFYIEERKSK DSEKAIFFDNYDAEREKTYRWKSSGEGRGRGHDAPIAYDA LLAAGNSWTELCRAMFHGGESAQTGTAGCLFGLYLGLDLPVK GLYQLEDEKELDLGALYRLSTEK
6442	34	796	AEDPAGGLAQODINFAFGLKRCVGHSEEDVEGLAGIKVSSYS LQROSLDMSLVKLQCLHNLVEPNLCRSVLJANTVRQIQEINTQ DGTWRTVAPQAARAPLDRLVSTELCRAAMQGEAHFASGLGD QHTQGPVSDLCPTVSAQAAPHLQSSAWENDGPRENRGSPHKSLD QIFETLETKNPSCHELSFSDVDSPPYDLDTVLVTGMNGGARPGPC EGLEGLAIPATPGFSSCKSDGLGLDHVIEVET
6443	2	555	NSPFASSVKPPRPVKPQTLVTPENAAEEOKLKLRLMKRPDK AVPIPEKSSSWAPRPPPEFVFRVWSSSAGAGSGEFHYRHLRRR EYRQCTYDMDAEKQKDLAEFOKRLKMKIAAEQTAQRKRQ KLKKEKLLAKKVLKQKQEGPQPKQSGSSSAAESGTHEEE VDSPTMR
6444	390	899	GSTTRGKNRAPIDEPKQOLISTIPFEPHYMATYVGDGVVWELA PPSEVAGAGASVMSALTDKALVKKELLYDVAGSDKYQVNNXID DKYSPLPCKSKI IQRAEVLQGEVLYLYLTSENCEHPVNSIRYGYA RSDQVRDVI IAAVAGMLAAMSLGVNPSRNRKQKQ
6445	2	753	AGAAGAAGAAAREPQAHITKGVRLPSRRSPDCGRVNEAAGSF SEZQFWAEACELQQPALAGWDLVETSGISYRLKDKTKCLY RYKVPGLVEDSCPTLLADIYNDSDYRKQNDQYVKELYEQENGR TVVYVRYKYPFMSNRDYVYLRQRDLDMEGRKIHVILARSTSM PQIGRSRGSYRVYQYKQSLAIESDGGKSKVFMVYFDNPGGQIP SWLINKAAKGVNPLKDMARACQNYLKT
6446	1	1651	RUPTRSPPPDTFGSRGTANCSLAGSATQGRGAVENEDLPFLS DSGLAAWSDDDALPHRQKQTPCLFCNRLPFSABETFSICKS EGRPLDSNVHREHLEFYGYIKLNPFLKLPVFNANSIINPV PWKEKRYLKVLEDDOLLQFVSDLEYVSSVPSFPGVGSSEST VVKKLJHMEARALSAALAAAREDLQWKPQACQFVMTDEVT CSSSTSVIADLQEDRDGYVTSYGHYGHHEMCKDKRTISYRE FIYONPHIFKDKVVLGVGCGTGLISMFAKAGAKVIGVDQSRIL

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			LYQAMDTIRLNKLEDTITLTKGKEEVHLPVEKDVITSERMGY FILLFESMLDSVLYAKNKYLARGSSVYPDICTISLVAASDVNKH DRIAPWDDVYGFMSCKKAVIPEAVVEVDLPKTLISEPOGKI IDCHTISISDLEFSSDPITLKITRSMCTAIAGYFDIYFEKNCHN RVVFTSGPQSTKTHWKQTVFLLEKPPSVIAGEALGKGVVHKK KOPSLITVILILANSQTITGLQ
6447	1554	1068	ELAPAEHMLSGFEATLGAANRGRALGVAAWAGAPLQCRVMNP SRTNLATGTPSSKVKYVRLSSTDCXILQLQFKKTPKIPYKIAIA LATVFLIAGFLIIIGSLLSGVISGSGADRVPVLIIGLIVFL PGFYHLRIAYYASKYRGVSYDDIPDFDD
6448	74	559	GQVLSHCYHYRSSWRNRGGLSRGSGGVNVALPYESTFEGLOK FHKPLATFSFANHTIQIQDMRHLGVAADVDAVLSTYLEMG AVELGRGSVELGAGTGLVGIIVALLACRIRYERDNNFLAMLER QFIVRVHYDPEKDVIHYEAKRNRKEDL
6449	597	1876	EYGVENLRKLEITGVSCRDVYAKLGRYRHLGLQPDPIGVY GLLNVVDGLFITGMNPLPHDPHVDPMRFPLRPHILMERKA ATVCEMYGHGKHGHGHIQIVKDEPSTKCNQTDHHRMSSGGQEE FRVLRBEWGRITLEDIPHEHMQELILMKFTIYTSQVNCITYRRI YLPFSRPDDLIKPGFLPKGTGSHGLEIVMLSFHGRARGTKITG DRNLPAGQQTVEIDLRHRIOQLDENQRNFELSRIVLEVREVR ROPQDQDEHAEHEDRGRGGRSGSPQAPRAEAPSEKGPDPGTP EDGSGPDVAIAAAGQAPQACQAGQFVFLVSVSSNEDYPTCRM CFYGTGLIAGHGTSPERTKQVFLLEDPEKGFVFLLEKRSFLY SRVQATFNADAPSQAFDEMLKHIQSITS
6450	848	269	FVPAFRTVSGKRLPGENEEREGEORTGREFSNGGRVFAAR MRLLCGLMLNLSLLKVLQAGTPTPLPDPMPQSCQNGPQSGW VLGLAGNSFRPEHRALLNAFTATFELSDGRFEVNNWATRCQHC DTWSYVLIAPAQGPQPTVDERWTHBQAGRPQDQAGQELVAAS RDAGPVHLPGOSSGFLG
6451	232	939	HSPITPPTSPRSTMEDVLEFSPFLPCKEDAEWITYPMREMQE ILPGLFLGYSSAMSKSLPVLOKHGITHILICRQNIENAFIKPN FQQLFRYLVIDIADNPVENIIRFPMTKEFDGLQMGQKVLVH GNAGISRSAAFYIAYIMETFGMYRDAFAYQERKFCINPAGF VRLQETVDAIYAKLTQIMMSPLQIBERSLSVSGTTSGLKRTHE EEDDPGTCVTAQNG
6452	1	652	RTREGSSNWDIAAYPLKCSGPRAPVFAVLLSVLCTVTLFLQ LKFLPKKINSFVAFVWDKAGRTSLKYKQVSLVFAVSDQLQ LTDNNYLGKBLHXEPOPESHVLAFCNCPGSESEFPPSKVES FARKNYGVTFPIFHKIKILGSGEPAPFVLVDSKKKEPKNFWK YLVNPEQGVVFWRPPEPTEIVREIDIAALVQVILKKEEDL
6453	827	223	HERWLPGLMEFPRITLPRPLSLICSLICICIAAAGSQSGSC RDKKNCVVFSSQELRKKLTPLQVHVTOEGKTESAFEGEYTHHK DPGIYKCVCGTPLFKSETKFDGSGSWPSFDVINSEAITFTDD FSYGMHVRVTSQCGAGHLGHIIDGDPRTGKRYCINSAALESFT PADSSGTARQSGSVASPAQADKAE
6454	827	223	HRNRLPGLMSFPRITLPRPLSLICSLICICIAAAGSQSGSC RDKKNCVVFSSQELRKKLTPLQVHVTOEGKTESAFEGEYTHHK DPGIYKCVCGTPLFKSETKFDGSGSWPSFDVINSEAITFTDD FSYGMHVRVTSQCGAGHLGHIIDGDPRTGKRYCINSAALESFT PADSSGTARQSGSVASPAQADKAE
6455	1042	173	RVLHATVSSAMDAALGLFVRSNHSJSTREMGVNDIVHRRFLQ LMTGVLGELBWVRLQTHCYVEDNRATATKLEDFTINISVLR SLYIEIKROVTEDDGRPIYALVILATTSIKWATPFASHEELP RKALELIDSBTFASSTNINLVQIKGKKKKKKAQVQLQKF VONKWLIEKKGEFTILHGRAILEMEQYIRETYTPDAVKICHTCHSL

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5456	2	555	LIQGSCETCGIRMHLCVAKYFQSNAPRCPIHCNDYTPHETPK VFDPEKERESGVLKSNKKSLSRSGH RQQRSTSMWRNSLLQVSSGLRWLRKCNAMVDLGEHRLVTKRGA TVEASAALQNKVVALYFAAARCAPSRDFTPLCLDFYALVAEAR RPAPFEVVFVSADGSSQEMLDFMRELHGAALPFDHPPYRHELR KRTHTVALPKLVIVQNGVEVITNKGKQIRERGLACFDQWVEEA DLFGQNSV
5457	23	892	PTTGFPVTFNPNNDGKPPIMILYVSKLNKLIHFFDPDKKIPV KLFPPLLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYVFPVND IFTAANGVYTKQMDPKELGKYGVLPYNACPMIIPTLIISVSTG DLQOATEFNQWKNVFILOFLSCFLGFLMYSTVLCSSYNSAL TTAVGAIKNVSVAIIGLIGGDYIFSLNLFVGLNICKAGGLRY SFLTLSSQLKPKPVGEENICLDLKS
5458	23	892	PTTGFPVTFNPNNDGKPPIMILYVSKLNKLIHFFDPDKKIPV KLFPPLLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYVFPVND IFTAANGVYTKQMDPKELGKYGVLPYNACPMIIPTLIISVSTG DLQOATEFNQWKNVFILOFLSCFLGFLMYSTVLCSSYNSAL TTAVGAIKNVSVAIIGLIGGDYIFSLNLFVGLNICKAGGLRY SFLTLSSQLKPKPVGEENICLDLKS
5459	23	892	PTTGFPVTFNPNNDGKPPIMILYVSKLNKLIHFFDPDKKIPV KLFPPLLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYVFPVND IFTAANGVYTKQMDPKELGKYGVLPYNACPMIIPTLIISVSTG DLQOATEFNQWKNVFILOFLSCFLGFLMYSTVLCSSYNSAL TTAVGAIKNVSVAIIGLIGGDYIFSLNLFVGLNICKAGGLRY SFLTLSSQLKPKPVGEENICLDLKS
5460	23	892	PTTGFPVTFNPNNDGKPPIMILYVSKLNKLIHFFDPDKKIPV KLFPPLLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYVFPVND IFTAANGVYTKQMDPKELGKYGVLPYNACPMIIPTLIISVSTG DLQOATEFNQWKNVFILOFLSCFLGFLMYSTVLCSSYNSAL TTAVGAIKNVSVAIIGLIGGDYIFSLNLFVGLNICKAGGLRY SFLTLSSQLKPKPVGEENICLDLKS
5461	1653	360	LQKQTLNITAVGQTHIAKAWRSESGLAFVGFASFIITVNCWYF LSIPITQLKRHPERICYLEKPTESQQRLANENQNGINTQDCWGLE LISTALENHTFHSQILGASLTLLYVALANFGALAVSLYPL DLVPSFVFGATSLGSFAFFVHEHCVRNEDRLAMTCCPGRSS YSVQNVVPQPNNGTNGEAPKPNSSAESSCTINKSASSPQNSQ GCKLTNLQNAQAQCHANSPLNISTPOLDNSLTBHSNDNDIKGHV APLEVOQRTNVHSSRHHQKRSKGRASRLTVLRAYDVPTSVE GSVQNGLPKSKLNNRHHRSKRAYLAIRERQYNNPPQDSSDAC STLKPSRNFEPKVPSTTSKIDALRKDAVSELENQKQSYGLNLA I QNGPKISNGQEGPLLTGDSFGNVGTGLWKHETT
5462	3	773	SEELDREIKLRKESAPRTNPKSGVPSLPVSLTSTIKKEPKRAKH PDQSQMBESKLKNDKRTPVNNDKSGRTVAVSSPMQSHQSYIQ YLHAYPPQMYDPHRAVRAVS PVLHASYFGALSPGPHVYVG KMSGRETEKKNVTSPSVNTKTTTESKALDLLQCHANQYRSKS PA FVEKATAREERERERDRHSPPQQRHLNTHHTHTVGMGYPLIP QYDPPQQLTSALIAVAQQVAPQASASQWPCQRS
5463	2	350	VILCLIGWFIKANADRENNKKKEPTREABRFPVDEDLKDSDS LHQAREADADWQESRENVHLIPPSHINYPEKEAVKRSQSFYELL NKRESVRFISNQVPMVEIDNVRTAGL
5464	12	1154	GILQKRRKRRNRTHKKKILFLEHLLVPSKMSLSLQKQVTVLG

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			LVEPSKLGRTLTHIELAMTFDCCYCPFPFCQEAISKEPTVMKNL YWKQNAYSHKENLQINQETAEIKELLYFKANGGALVENTTT GISRDQTQLKRLABETGVHIIISGAGFYVDATHSSSETRAMSVRL TDVLAKEILHGADOTSIKOGIIGEGSWPLTHSEKRVLQNTAH AQAGLQCPVTIHPORSSRAPFQIRLQSGADISIKVMHSLDR TLDKKELEFQAGLQCYLLEVDLFTLLHLYQLGPDIMPDDNKR IRRVRLIVKSGCKDIRIVANDHTTKRLMKYGGHGYSHLITNV PKMLLRGITENVLDKILBNPKMLTFK
6465	126	1396	KMTVFETKLRNKKNTTAGLCLTWGGHFLYKRCNLLRRAAC QEAQVFGNQLIPNNAQVKATVFLNPAACKGKARTLPEKNAAP LHLGMDVTVTKTDYEGQAKKLELMZMTDVIIVAGDGTQLQV VTGVLRRTDDEATFSKIPIGFIPLOGETSLSLHTLPAESGNKVHI TDATLAIVQGETVPLDVLQIKGEKEQPVFANTGLRWGSRFDAGV KVSQWYLEPLKIKAAHFFSTLKEWPQTHQASISYIGTPERPN EPEETPVQPSLYRRILRLRLASYNQPDALSQEVSPVKNQDVO LSTIELSITRNNOLDPTSKEFDLNICIEPTDISKDPITIGSR KVMHKLHVETGECLOASQCILLIPBAGGSPSISDSSEYRAMPV EVLHPRKLQFPDPRKREQLTSPQ
6466	1134	828	VARETKLSLEKAFPADMGRRKSKRPFKKKNQTLTETQFTC PCHEKESCDVMDRARTGVISCTCLEEFQTPITYLSEPVTV YSDNIDACEAANQ
6467	301	2571	GELRVLAIAHGLACHAVTASLLSLSRSRMESMDVYERBNVET IKCVVVGDNVAGKRLICARACNATLTQQLLATHVPTVWAIQD YRVCQEVLEERSDDVDDVSLSRLMDPTGDIHKKDRFAYGRSDV VVLCSIANPNSLHVTKTMYPIEKHFCPRAVILVGCOLDLRY ADLEAVNRRRLPRLPIKPNLPLPKGKREVAKEGIPYYETS VAQFGIKDVFDAIRALISRHILQFWKSHLRNVRPLQAPFL PKPKPPPIIVVDPSSSEECAPLLEDPLCADVLVLQERVRI FAHKIYLSSTSSKFYDLFLMDLSBGLGQPSKPGOTHFEDRQGH SDQHHEHHHHHGRDFLLRAASFVCSVEDRAGSGPAGLRAS SDGLRNGTGYLFGGRVLSWSEAFVSIQEMADDPITYKSR LARYVMMSSIQGPFAVLKYLTYGQDSEKRLMHIARIABEL LEVDLRKAVAILAREAFMNGETTAFTVRNTRNVECLARGT FSQVTPILDDGTISAKHPLISSCDWALVQGPFGVESREIV FPYTSKCMRAVLEYLYGMPFTSPDLDVXLIILANRLCLPHL VALTEQYTVTGLMEATOMVVIDIGDVLVFLRLAQPCRAYQLADW CLHIEICTNYNNVCKFPDMKMGSPENGEYFEKRRPVPVWLYKE EDHYQARKEREKEDYHLKRPQGRKRLFXNSPSPSSSAJSS SPSSSSAVV
6468	3	1374	DAAQGTNMAALAPVGSFASRGPRLAAGRLPLMLGLQLLAREPG LGRVHHLALKDDVRHKVHLNTPGFFKDGVMVNVSSLSNPEPD KDVTIGPSLDRTKNDGFSYLDENVYCLKKQSVSTLLILD SRSEVRVKSPPKAGTQLPKIIFSRDEKVLGQSGEPNVNPPASAGN QTQKTDQGGKSRSTVDSKAMGEKSPVNNNGAVSPOFFFNIS TDDQGLYSLYFKHCKLGLKPLSDKPTFSLDIETEKNPDSYLSA GRPLPKYLSMAFFFLSGTWHILRRKKNVFKHMLMAAL PPTLSLSNPAIDVHYLSSQGPPIKGRVAVYTHLLGALLF ITIALTGKRAPIKHLSDKDKKLVIVIRVLAIVAVIIES TREGTETGLAKDSPLVLLCCGAILFPVWVSIHRLQASATD GAGKFSRAHVTLLSL
6469	3	1374	DAAQGTNMAALAPVGSFASRGPRLAAGRLPLMLGLQLLAREPG LGRVHHLALKDDVRHKVHLNTPGFFKDGVMVNVSSLSNPEPD KDVTIGPSLDRTKNDGFSYLDENVYCLKKQSVSTLLILD SRSEVRVKSPPKAGTQLPKIIFSRDEKVLGQSGEPNVNPPASAGN QTQKTDQGGKSRSTVDSKAMGEKSPVNNNGAVSPOFFFNIS TDDQGLYSLYFKHCKLGLKPLSDKPTFSLDIETEKNPDSYLSA

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5470	2725	1437	GEIPLPKLYISMAFFFFLSGTIWIHLKRRNDVFIHMLMALPFTKLSLSLVFAIDYHYISSQGFPIGWAVVYIITHLKCALLFITIALIGTWAFIKHILSDRKKIFMIVIPRVLANVAYIIESTESTETGLWKDSLFLVDLLCCGALLFPVWVSRHLQESATDGGKFSRAHVFLLSL
5471	1750	299	KAASVSRADAPVLAQSPASGNGRPTVFWFSRRHPSAPRSGPLPREDGCRTPGQPLLPLPGALLRPITLSAAPTQSRHPTQHPSSGCRGCGOTESDSSAAGRPAWAEAECHSTVVRADDEENESPAETDLQALQMFRAQMFPLAGVSSNLENFPCRAARGSLQKTSADTKGQBQAEKEKARELFKAVEEBQNGALYEAIKFYRRAMQLVPDIERFKITYTSPDGDGVNGSYIEDNDCKSMADLLSYFQQQLTPQESVLKLCQPELESSQIHIVLPMEVLMYIPRVWVSDLDLRSLEQLSLVCRGFYICARDPEINRLCAKVGWGRSCKILVPYTSWREMFLEPRHVRFDGVYISKTTYIRQGSQSLCGFYRAWHQVEYVYIRFPDGHVMMLTTPPEQSVIFRLRTR
5472	3	897	FFFDMAAGGSGVGGRSSKSDSDSGFTGLRPTSVFALRRRRGPNKKRGWRLAQBSPLGLEVDQFLBVLQERTSGGLLSAPNKKLPPVDTSKSGSLFKKRTKVQKSLMLKLFLVDLILENTSKVPAKDLARQVPAKALKESQWKLAKQQLFVREVRAGARLNPSPATRAKPGQPTVERPFDLAKSDMLERPLVQGDFFLEQTKKKGVKRRPLARLTKPSQANAVEVAQAGASVNSPEHDTLLAHEVELORQEKASBLRQLALPATQATQESTPQLCEGLLEESDGEPEPGQGEPRAGDAEVCPTFARLATTKKTEQOREKAKA VHLRLVQQAALRAARLPHQELFRGLGIAQVALRLAELARQRROARREAEADKPRRLGLKYQAPDIDVQLSESLTSLRLTKFEGNLRDRFKFSQRNMIEPRERAKPKKKYKVLVEKRAFREIQL
5473	22	912	SCGSDRAQWAMEFFPDVDFLPPERTVLDQHLRFPARRSPOTTARPVDLQQQIMTIIDELGKASAKAQNLSAPITSSASRQSNRVVYILKSSARPAGGAIIGFIKVGKILFVLDDREAHNEVFLCILDFYIHESVQRHGRLELPQMLQKERVEPHQLAIDRPSQKLKFLMEYINLETTVGPVNNFVYBGFATQHRPAPSLRATRHSRAAYDTPAPAPARKLPDRAEDGIFPSYSDREFLKVAVRPFWPLNAPSRATPPHPPRSSSLONGPPLRFPF
5474	3	462	SSAVEFWSEKMAAEPIKTTOTLFLKRLNVRTHKACFPDCAKNPSMASITYGVFLCIDCSGVHRSGLVILSPINSTELCENKQWQVLRCHQVGGNANATAPFGUGCTANDANTKYNSRAQMYREKZRLGSAALARHGTDLINDMNSAVPMNSPEKKSDFTTEHTQPPAKDAPATEPSGTQQAPSTESSGLAQPERGPNTDLIGTSPKASLKLKSSIIIGKCKPAAAKGLGAKGLAQKQSSVSPSEIERQAQVAELKREQQAADAKQAEEPMVASKRLAYQELQDR
5475	3	462	LQRQRQHPAAAPVVRCPFTFCFTDIVMFKRKSPEPTEGKDGSKVTQKQPTRRSARLSAKPAPPKPEPKPKTSKAKKPGAKISRGAKKKKEQSGKGTGPTASNGETKARELHISRSVTNVYSTSRGTPPTLSVKGQILTVKVGKTEK
5476	106	1090	LQRQRQHPAAAPVVRCPFTFCFTDIVMFKRKSPEPTEGKDGSKVTQKQPTRRSARLSAKPAPPKPEPKPKTSKAKKPGAKISRGAKKKKEQSGKGTGPTASNGETKARELHISRSVTNVYSTSRGTPPTLSVKGQILTVKVGKTEKARAWQYKGTWKEAGRAHLLKKRERQFQMSVLKORLEETILLKSQVDKRFSAHYDAVZALKSSTVGLVTLDMKAKQCALVREKROLAKKROLKROQLQOERCRROHKKRKKIKCLSPALDLDLDDQADAKARAGNGLGNPDVDTPLFDRDREEBENKLEELRQEWBAQRKEKVDKEMRVTFSSYWDGSHRRRTVVRKGNVTQVFLKALQGLRKKDFLEISAGVQLMFIKEDLILPHYHTFYDFIARARGKSGPLFSFDVHDDVRLSLDATMEKDESHAGKVLRWSWYKNGHIFPASRWEAYDPEKKWDKYTR

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5477	227	915	LQGHLMGMAASRPLSRFNEWGKHIVCGANTADHVRMRSVAVLSEPVFLFKPSTAYAPGSGFILMPAYTRNLHLELGLVVMGKRRCRAVPEAAAMDYGGYALCLDMTARDVQDECKKGLPNTLAKSPFASCPYSAFVPEKKIPDPHKLKLMKVNGSLAQGETSSMIPSPITYIISVSKLITLSEGDILITSTPKGVVPKNEDEIAGHGLVSMTEFVKPEY
6476	2	1495	FVSRILPESLASSEASTLEAMGAKCHDDCSNKKCTTNTKTPIMVELGSGAFSEVFLVKRLTGKLFALKCTKKSPAFDSSLEHIEAVLKKIKHENITVLEDIYESTHYVYVQVLSGGELPDRIERGVTEDASLVIOQVLSAVKVLKENGIVHRLKPNILYLTPERNKIMITDFGLSKMEQNGIMSTACQTPGYAVEVLAQPKYSKAVDCWSIGVITYILLOSYPFFYEETESKLFEKIKGYTFESPFWDISESAGDFICLLEDKPNERYTCEKALSHPWIDGNTALHREDIYPSVSLQIQKFKASKWQAFNAALVHHRKLMHMLHSKPGVRPEVENRPFPTQASSETSPSSPEITITAEPLVHDSVALPALTQLPCQHRRPTAPGGKSLNCLVNGSLHSSLVFMHQSLAAGPCGCSSECLNIGSKGSSYCSSEFTLLKKANKKNFKSEVMVPKASGSSHCRAGTQVCLM
6479	3	549	SCSPSPWPKAGSQAGMELLSLSESLALSFSRVLPLPFFDLSYTVTSILYLKYPSPNVELSHRIPASGLCMHC70851LADLLGEPFLDYFSGNSSLASAVVLYLFPFCPLFKVCCVLPFKLIPVAMKEVVRVKLIANGIHHAAHHYHGHWPVIAATGVKSGVAIMSNFQQLRGVWKPEITNELHMSFPTKASLYGAILFTLQCTWLPVSKASLIFITFLMVSCKVFLTATHSHSSPFDALGQYICPVLFGSACGGHHDHNGSHSGGPGQAHSAMPAKSKESLSBGRKKAKKAD
6480	192	514	DMSTYFFPHCFDYLKSAKTEVMNTPQMEIGLSPRKDGLSYQIFPDSPDFDRCKKQDRPLSIVVPTGEVSEGLRWPFPEFLVQDEQDNCERTAKENKEQ
6481	110	1131	KSRMDLVNMFVLAGGTLAIPALPASFLNPSALIRITYWYWRITLGMQVRYVHEEDYQFCYSFRGRGHRKPSILMLHGSARKDMHLSVVKFLPNNHLCVDMHSGHGTTRSLDLSIDQVGRINQFVCECLNKKPHELYGTSHSGQVAGVTAIYYSIDVSSBLWCPALQYSTDNGVFORLVELGLQSAVKEKPLIPDTPBMSRLQCLSVYRFVKPQCLQLQVLDVRIPIHNTFYKPLFLSLVSEKSYSLHQNMOKIKVPTQIITWQDQVLDVSGADMLAKSIANQCVLELNCGHSVMMERPRKATKLIIDFLASVHNTDINKKLD
6482	2517	568	EPVSKVSGRRKAGVPTANIESQAVJAMAMVPMASVCEKFOALALSKVELHKNPEKEPYKSYGARALLSEVKALLGPAPEDERPRKDPGAGDHAGLPASVVEPSGPAQAVRVLAVIEPHLGVNHIIDTEELASGERHLVKCLRLRRYLSHDCISLCIQAGNNLIGLNSEREEIETAQAYLESSEALYNQYKMEVGSPPDPDTERFLPEEBKLTQERSKRFKVTYHNLVLAQVQHLMEFVKAAYCHISTLKRQLEHNAYPHEWAINAATLSQFTYINKLCPWASRCHLSAANVIFGOTKISATETDTPRARGVPRILYHQKKEIARCVIEYCLTLMQNAQLSMQNGIMGLDQSELRALKRKEDEESIRKKAQVQGTGRLCALSASVEKVSYLRVLDPESEARELFLQGGIVFSEAKBFPQIDGYVDHLEKVVQDSBALFKLAFETEKERGHHRKILSLRPLTVDLNQQYLLVNRQTOFRIASVYDMDOLVATDLDDPSHIVKKINNKLKSALEYQLFLDSLRPNKVPFPHIGQEDVRPAMIAKFRVARLYGKIITADPKKLEMLATLSHYKFTYVDCXKHFEEAQEIVELELSKEMVSLPTKMERPFTHALT
6483	3	623	NSHLLGLARAPLSANGREARAMKRLRFEFAARKAGLAQDPAASGAGQATPGKAAEAATLKAAPGNLKRFLVWKPFASARAQPGVLQEAQPGQSTSETPWNTAIPLPSCWQGSFLTNTITFLVLLVLLVGLFVELEFGLAYFVLSLFWYVGTGRPEKKEGEKSAYS

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6484	201	965	VNFNGCBATQQTTLTAQQLERLQLRPLAGR QLAVTKMSQLRFTQVDPRIELFVKAGSDGSEIGNCFPCURLE MILNLKGVKFNVTVDMTKPEELKDLPATNPPFLVYNKELKT DFIKIEBLEQTAPPYRPHLSPKYKESFDVQCMLFAKPSAYIK NTQKEANKNFKSLKSKFKRLDDYLTPLDDEIDPDSEEPFVS RRLFLDGDQLTLADCSLLPLKMIKVAAKRYRDFDIPAREFSGVW RYLHNAYAREEFHTTCEPDEKEIENTYANVAKQKS
6485	6	1091	FVDLVRAVEFLPCPDSSQLKRRQSSSESHAGSNNRSTLEEDDE DESEPPHLLVYHEPRS FEVGMVLVWHKHKYFPFPAVKSVRQRDK KASVLTIDGHMNPIMKGVTVLSKSLGHFDEKEQTLLNQAREDF WDGKQCSLITDVFRLGCGSFAQSFLRYAADISYVPKRSIKQ QOVLQTKLPOLSKSPPEFPVQGLQQRKCRKMLDESKAAED RANQKLVYEYIKAGKAGASHILAILKSKRSPWLTQTTLSSSQYPT CVETYLEDEGQDLDDVVKYLGQVQEQVAKVLTQNGDRIRPFLD VLLPEAII CAISAGDEVYKTAAREKYIKGSLSYRKEIFPNQOL LEERNRRRR
6486	10	581	LDVLAGGAHLSPSRVTQIYYNLAFSENPFPFPIYSELSDSLTLAG GGTRFSGPLHRAKRMNFRQRMWIGVGLYLASAAPAYVYFE ISETYNRLALEHIQCPPEPLEGTWTWHSKLAQLLSLFPWVMTV IFLVPYQLMFLYLSCTRADPKTVGYCIPI CLAVI CNRHQAPV KASNIQSLQLDIT
6487	352	863	SFLPLARQNSVTLHTDVGDIKIEVFCEPTPKTCENFLALCASN VYNGCFHEMTKGMVQVQSDPTGTRGGSINSWGKFEDEYSEYL KFNVRGVFSNANNPWTNQSQFPFTYKQPHLDMKITYVPGKVID GLBTDLDELKLPVNEKTYRPLNDVHI KDTITDANFVQ
6488	878	241	TALQEFQTSQPLSLRFPALRSTQTRPFLPEAGRGRSPWPSPRV MEPNLYPVKLYVVDLSEGLARRLSPIMLGKLEGIWHTSIVVH KDEFFFGSGQISSCPGGTLLGPPSSVVDVGSTEVTEEFLEYL SSLGESLFRQRAYNLPEHNCNTFSNEVAQFLTRGKIKPSYITDLP SEVLSTPFGQALRPLDLSIQIPPGGSGVGRPNQGS
6489	1457	375	EVAKMATALSEEDLNEDYSLNLRVRESSELKAAVYRRLCML YHPDKHRDPKLSQABRLFNVLHQAYVLSDPQTRAIYDIYKGR GLENGEWSVVERRRTPABIREEPERLQREERRLQQRTPKGT ISGVDAITDLDEYDEEYDVSQSSFPQIEINKMHISQSI EAPL TACTDAILSGSLSTQNGNGGGSINFALRAVTSAGKWSLELPGAG DLQQLFQFLKRNLTFRCTFTWCKALQPSRRLPGLTITVLAR NLDNTVTGLQWIKSSPLLOVQRPBPNITACAPSPFRFLWVP IWDACEGARTPTSTWTSAAVKLREA CLQCPGSGSHQLLLITPR SKRRTGGG
6490	3	1183	HRAGCEVNLGYPGRARAAAAATVFGGAGPPTMPVARSIAADH KDLTHDVSFDPHGRMRATCSGDQSVKVMKSESGDWHCTASWKT HSGSVNRVITWHPFPGQVLASCSDRTAAWNEIVGESNDKLRG QSHWVKRTTLVDTSRTSVTDVFKAPKHMGLMATCSADGIVRIYE APDVNMLSQSLQHEISCKLSGSCISWNPPSSRAHSPWIAVQSD DSSPNAMAKVQIFRYENNTREKYAKETLMTVTDVPHDIAPAPNL GRSFHILAIATKDVIPILEKPVKELTSSGGPTKPEIHIVAQPD NHNSSQVNRVSNITGTVLLASGDDGCVRLWAKANYDNKWCCTGIL KNGSGVAKSGGQGTGTPSLGSMTPSLQNSLNGSSAGRHGIS
6491	3	1183	HRAGCEVNLGYPGRARAAAAATVFGGAGPPTMPVARSIAADH KDLTHDVSFDPHGRMRATCSGDQSVKVMKSESGDWHCTASWKT HSGSVNRVITWHPFPGQVLASCSDRTAAWNEIVGESNDKLRG QSHWVKRTTLVDTSRTSVTDVFKAPKHMGLMATCSADGIVRIYE APDVNMLSQSLQHEISCKLSGSCISWNPPSSRAHSPWIAVQSD DSSPNAMAKVQIFRYENNTREKYAKETLMTVTDVPHDIAPAPNL GRSFHILAIATKDVIPILEKPVKELTSSGGPTKPEIHIVAQPD NHNSSQVNRVSNITGTVLLASGDDGCVRLWAKANYDNKWCCTGIL

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5492	34	2573	<p>KNGSPVNGSSQCCITNPSPISNIPFSLONGSNGSSAGRYHS</p> <p>IPFLKSCCCCCIFDFPPPPDLVOREECEVERVETGRTPKPFRK</p> <p>PDSVAPGESQSEDEQFENDLETPDPNNQQLVSRVLLGLKPCET</p> <p>KRCEVINELFYTERAHVRLTKVLDQVQVQVRSREGILSPSELK</p> <p>IFSNLEDILQLHIGLNEQMKAVRKRNTSVTDIGIEDLLTNFSG</p> <p>PGSEKLHRAATFCNQPFALNEMIKSRQKQDSRFOTFVQDAESN</p> <p>PLCRRLQLKDIIPIQWOLRTKYPILLDENIATYTEMPTFRKVKK</p> <p>ADNRCPQLMVFVQCAVEAKENKRLRLEQGRRLDTSLLKLEYFN</p> <p>VELRNLNLETKKMLHREGPLVWVVRKTDIDLTILLLEDILVLL</p> <p>CRQDDRLVLRCHSKILASADSCKHTFSPVILKSTLVVQVQATN</p> <p>KALFVIMSNDGAQIVELVQAOTVSEKTVNQDLICMAASVKEQS</p> <p>TKPIPLPQSTPGSGNDDEEDPSKLEEKQGISVTGLQSPDRDIG</p> <p>LESTLISSKPQSHLSITSGKSEVRLDFAERQFAKEQHTDOTLK</p> <p>EVGEDYQIALPDSKLPVSEERWALDALRNGLKQLVQQLGLT</p> <p>RKSVDQWQHFFRYRTASQSPQTDVIONSENKIAHSGEGHNP</p> <p>FRITGTDIATCYSPRTSTESFAPRDSVGLAPQDSQSNILVMDH</p> <p>MDMTPEMPTMEPEGGLDSEGHFFDAREASHDEN/SEGDAVAK</p> <p>REKDVHLRISGNVILIDGYDFVQSESTDEEVASSLTQLQWTGP</p> <p>AVESTHQQHSQFNTHSDGALSFTFTEFLVQQRNGAMEYSCFBI</p> <p>QSSSSCDDQSQIMSYTHKIEADLEHLKKVKEESTYLICRLAGS</p> <p>ALTDKHSKDS</p>
6493	557	1147	<p>TFARMAYGSSSTSDCKSTLDSASAHAAASAVVASPVFSESEVA</p> <p>KECNTGHNINGVQPSGTSKITLYTMALSSPGISAIVQLVET</p> <p>VGHITTHMLIPALCTSSPQLTLMNNSCLTNVAHLNIVSVVSPYN</p> <p>VHINTRTSAPSTALKLATVAASMDRVPKVPSSAIGSIARENN</p> <p>EPERLGLNGIARTVAMEVT</p>
6494	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRHPPFLRPPFAINHASAVVLD</p> <p>LKGVLI CRNRYGDDVMSVEVHPMFI MEKEEEMGLSPILAHGG</p> <p>VRFMKIHNNLYLVATSKKNA CVSLVFSFLYKVVQVFSYFKE</p> <p>SEESIRDNFVIIYELLDELMDFGYPTQTTDSKILEQVITQBGHKL</p> <p>ETGAPRPATVTVNVSWSRSGIKYRKNEVFLDVIESVNLLVSN</p> <p>QNVLESIVGSIKMRVFLSGMPELRGLGNDKVLFDNTGRGKSKS</p> <p>VELEDVFKQCVKRLSRFENDRTSIPDPGEFELASVRLNTHVK</p> <p>PLIWIKEVIEKHSRSEIYMKAKSSQPKRSTANNVEHHPVN</p> <p>DADSPKFKTTVGSVKNVPENSEIWSIKSPFGCKEYLMRAHGL</p> <p>PSVEADKEGKFPISVKFEIPIYPTTSGIQVRYLKIIEKSGYQAL</p> <p>FWRYITQNGDYQLRTQ</p>
6495	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRHPPFLRPPFAINHASAVVLD</p> <p>LKGVLI CRNRYGDDVMSVEVHPMFI MEKEEEMGLSPILAHGG</p> <p>VRFMKIHNNLYLVATSKKNA CVSLVFSFLYKVVQVFSYFKE</p> <p>SEESIRDNFVIIYELLDELMDFGYPTQTTDSKILEQVITQBGHKL</p> <p>ETGAPRPATVTVNVSWSRSGIKYRKNEVFLDVIESVNLLVSN</p> <p>QNVLESIVGSIKMRVFLSGMPELRGLGNDKVLFDNTGRGKSKS</p> <p>VELEDVFKQCVKRLSRFENDRTSIPDPGEFELASVRLNTHVK</p> <p>PLIWIKEVIEKHSRSEIYMKAKSSQPKRSTANNVEHHPVN</p> <p>DADSPKFKTTVGSVKNVPENSEIWSIKSPFGCKEYLMRAHGL</p> <p>PSVEADKEGKFPISVKFEIPIYPTTSGIQVRYLKIIEKSGYQAL</p> <p>FWRYITQNGDYQLRTQ</p>
6496	227	559	<p>LRAVSLPLQLVLFPSYTHSLFCMPLCAQENUTGLNVLPELFY</p> <p>HPWRYFHCPADSSSELA'DPFPVVMGNDTSLYCQKCANCKLAFYLL</p> <p>SFFYYLVCMIITLVSS</p>
6497	1053	352	<p>ANTQICRLCPKRLHPPCCAGKGNGETEEDYFVFRVVLIGESGW</p> <p>GKTNLLSRFTNRKFSHSDRTISFIVGEFSTRTVMTGTAAVKAQID</p> <p>TAGLERYALTSAYYRGAGALLVFDLTQIOTYAVVERMLKELY</p> <p>DHAEATIVMLVGNKSDLSQAREVPTTEARMFAENNGLLFETS</p> <p>ALDSTNVBLAFETVLKRIFAKYSQRONSIRTNATILGSAQAGQ</p>

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6498	2636	272	EPGPGKRAACISL SLRLCFWGHLAGPTTWRLSSLLALLRPLALPILGSLGCSLSL LRVSNIQGEGEDPCVEAVGKRGQPNPDSRRARLDQSDDEDFPKPRI VPYYRPNKPYKVLTRYIQLTGLSRRLLVAULTSRATLSTL AVAVNRTVAHHPRLLYFTGQRGARAPAGQVVSNGDERPAWLM SETLRHLHTHFGADYDWFIMQDDTYVQAPRLAALAGHLSINQD LYLGRAEFTIGAGQARYCHGPGVLLSRSLLLRLRPHLDGCRG DILSARPDWLGRLCLDLSLGVGCVSCHOQOYRSPFELAKNRDP KRGSSAFLSAFVHPVSEGTMYRLHRRFSALKLERAYSKIBQL QAGIRNLVLTPEGEAGLSWVQLPAPPTFSIRFVGLNDYFTE QHTFSCADGAPCPQLQASRADYDALEALQLNRYDQLRFR QORLLANGVRRFPDPAKNGEYTLDLILCQVQRHRRALARVEL LRPLSRVEILLMPYVTRATRVQLVPLPLVABAAAAFAPLEAPAA NVLEPREHALLTLLVYGPFRGORGAPDPFLGVKAAAELEBERRY PGTLRLAWLAVRAKPSQVRMLDVSVKHEDVTLFPLTTVTWTRPG PEVLNRCRMAISGWQAFPPVHQEFNPAISQPSPPGPGAGF DPSPDPGADPSRGAPIGRFDRCASAGCFYNADYLAARAPIAG ELAGQBBEALLEGLEVMDFVLRPSGLHLFRAVRPGLVKQFSLRD CSPRLSBEELHRCRLSNLGLGGRQAIALNALFQEQCANST
6499	3	2040	SCSADTRPSGQANTVGLRAAAGAFKFGSPSALGPTPQVACLF GHPPVPFVPSGGGAMPDPAHLPFFFGSISRAEAREHKKLAAG ADSLHLNQLRLSKVYLSVMDVVRTHIPELSRQANGLTYAIAQ GKAWCQAPALCEPYSRDPDGLPCRLKPCNPSGLBEGPQVFC LRDAMVRDVYQVTKLEGEALQAIISQAPQVEKLJATTAREHM PNYHSSLTREAREKLYSGAQGTQKFLRLRPRKQGTVALSLIYQ KTVYHYLSQDGKAGKYCIPBGTKFTDNLQVLYLKLADGLIYC LKRAFCNSSASNASGAAAPTLBAPSTLTHPQRRTDLSNGYT PEPARITSPDKPRPMMDTSVYESPSDEPEELDKKLEKRLNLL LADIELGCGNFGSVRGQVYRMRKQIDVAIKVLQGTETKADTE BMKRAQIMHQLNDPVIYVRLIGVGCBAALMLVMEAGGGPHELF LVGRBELLPSVNVASLLHQVSMGMKYLEKHIFVRIDLAARNVLL VMHEAKLSGDSKALGADDSYITARSAGHKLWAPFCINF KFSFSDSWSYGVTFMEALSYGQKPKYKMGQEVMAFPGQGR MECPPECPPELYALMSDCHYKXWRDPDLTVQRMRACYSLSA SKVEGPGGSTQKAAACA
6500	1773	726	TGPTASADNGLVRSVIRWCANVRGNPCMAALSCPAVLDNKK MLSESSSFLKGVNLGSIICALITMLGHIHGHGNRMGHEHEHHL QAPNKEDILKISEDERMELSKSPRYCIIILVKFDVSLMAAVEK TWTKCDKAEFFSSENVKVFESINMDTNDWMLMRKAYKAYFADK YRDQYNVFPARPTTFAIENLKYFLKKDPSQPPYLGHTIKSG DLEYVMBGGIIVLSVESMKRLNLSLIPKCEPQGGMIKISID QLAVCLKYAGVPAENADADGKQVFNKSVGLSIKRAMTYEN QVVBGCCSDMAVTFNGLTPNQMVVMVGYVLLRAGPYFQ LVUMSGGGTETPVGCEAAGGGGSKRDKITAGSAHLITKLDEL IHSRLDHRPVIQETRYFVKEFEKKAGLRMGVLEHLKNMIHE TNSHLKCRDTHROSLSQVLQRQAANDSVCLQCRQGBRHKI HSHLVASKEGHLQMLDNFMKEQPKKRAVDEHKKAMHLEKQ YAMRKDLAKPSTF
6501	1	570	AKNKFDPWAGNRRTAVLPDVSVPNHRGDKWKSRLQSQVAKVE KSSEALEFMKRLDTEFTVQVGHOTACTIAATASVVEKELAVBGS SGATENMKKGSLDFLGVISDTFAPSDEKIDCDVITLMTGTPSGT ARPYDGTAKRLYSLOSDPATYCNRPDGPPELFDWLSQFCLREK KGRISLVLGSPSIRALYTKMVAASVSHFVHRYFYKHQLEQ HOARRDALQKRAQSISEEPGWRESEELMGIPIPSIKRAKVV AKISTPEGBRPGQPCENRNLVSPVPELVEPTSSSSSISLVT QIANPATAPARVLPKDLSQLLEASLEQGLAVDVGEGTGPSP
6502	213	1650	

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SBO ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing sigma peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *-Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
6503	213	1650	IHSKPLTPAGHTGGPFRPPARVETLRECAPTLRLVPELNSDNG KSTPSNNGKKGSSTDISDWEKDFDLEMTREBVMALS KVDASG EVSGPGSGEGEPNGPGCESSPQPAQLSPQEGPCSCLE AGNKPDPMAGNRNIAVLSDVSVFHRDVGWRSMLQSGYQAVK KSSALEFMKRDLTBPTQVVDHDTACTIACTASVVEKLEATGSG SQATEMKKGLSDFLGVIDTFAPS PKDTIDCVITLMTGTPSGT AEPYDGTAKARLYSLQSDPATYCNEDPGPELFDAMLSQFCLEEK KGEISLLVGSPSIRALYITQMVAAVSHSEFPMHRYFYKVHGLEQ EQRRDAIKQABQSISEEPGWEEELMGTSPISPEAKRQVVP AKISTPFGUEPQPSPCENLTVSVPPAEVTPSSSESISLVT QIANPATPAEARVLFDLSQKLEASLEQGLAVDVGTEGPEFP IHSKPLTPAGHTGGPFRPPARVETLRECAPTLRLVPELNSDNG KSTPSNNGKKGSSTDISDWEKDFDLEMTREBVMALS KVDASG EVSGPGSGEGEPNGPGCESSPQPAQLSPQEGPCSCLE
6504	2131	1294	GKVLVIAHWVCLSLSPFFAGKWTPNAGEAGQOTRAAAGRATG SANNTKKKVSQKQKRGSPSSQPCRNLYGCKLSHGNGKGDPEITQ WGTGVLQGVINPSLYLVKYDGDICVYGLEHRDERSVLKILS DRVASSHISDANLANTIIGKAVHMFGEHGSKDEWRGNVLAQA PIMKAMFYITYEKDPVLYMYQLLDYKEGDLRIMPESSESPTPE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKSPVYTIKF DDDFHLYVVDLVKKS
6505	2131	1294	GKVLVIAHWVCLSLSPFFAGKWTPNAGEAGQOTRAAAGRATG SANNTKKKVSQKQKRGSPSSQPCRNLYGCKLSHGNGKGDPEITQ WGTGVLQGVINPSLYLVKYDGDICVYGLEHRDERSVLKILS DRVASSHISDANLANTIIGKAVHMFGEHGSKDEWRGNVLAQA PIMKAMFYITYEKDPVLYMYQLLDYKEGDLRIMPESSESPTPE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKSPVYTIKF DDDFHLYVVDLVKKS
6506	1	1350	EVSPFTSCCLTVAVADRGVSESGFRGAGCENPGRGRCDCGCT ELVEDSHYSQSLVCSDOGCVTTEGLVLTTFPSDEGNREVTVSR STGENBQVRSRQQRGRVRLCRVLQLPTTFEDTAVAYYQAY RHSGIKARLRQKEVLVGGCVLITCRQHNWPLTNGAICTLLYAD LDVPSSTHMQIVKLLGLVPSLCLAEIVRTCSFKLFQASPEV FAKYVDEKRMQSTWQGVELANETWLVGTGRHLEVITATFTLA WQSLQPADRLCSLARCKLANDELFPASSRISQSLAVLLEHHA EQLANLVRLDRKRSVKHIGDLQHQKQSVRSASFDPDTNIVET REKEPPGWGQQGGSGVGNISLGLPQGRKPPASALLPPCMVLS PKRICVPVPSTVTGDENISDSIEQVLTLPQEVDPQRAQAAR QAATSVENPFP
6507	1878	929	RSHASRLPRLPSGCLVLQVQELVMSQMAVTTIPWQKPHGA ARSVVRIGTNLPLKPCARASFTLPHISDLCIRDVPPVPTLAD IAWIADEEETVAVRSDTRPLRHTKPSPLIVQRMASVFNLR GSRERLALAKPALSPALSRRTTELQDELSHLSGIAKVAADAAS ASLTPDFLSPGSSNVSSPFCFGSSSFHSTTSFVISEDTEETVE VPFLSPVPLLCASPECCPEHKAACSSSEDDCVLSKASSFA DMWELKDPHRMKSQDLNRLSKKEEDPAVILSKVLRLKALKE EDTSKEGN
6508	862	342	WEARKEQRPWPSERREVRVPPPHLQRCRSGLEICPHKMAARF SLGRVLPGSSVFLCDMQEKRHNIAVTPQIVSVAARMLKNTLL DLDRLGLQVHVVDACSSRSQVDRIVALAHRQSGATLSTSEGL ILQLGVDAVHPQKEIKQIKLKEPADPSGLGLLFGQNSLLH
6509	2	1053	PVNNPRGRKRRQAQVTAATRASGTFSPDQGWITQKTSVAN KAPGTGQQQVHGKKEAPVAPSPPYHEATSGEMKAGAFPP APTAVPLHPSWAYVDPSSSSSYDNGFTPEHELFTFSWDDQKV RRVFVRKVYITILLQLLVLAVALFTPCDPKDYVQANPGWY ASTAVFATYLTACCSGRHRFPNILLTVFTLSKAYLTGML

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6510	37	1156	SSYNTTTSVLLCLGTLALVCLSVTVFSFQKFDPTSCCGVLVL LMTLFFSGLLLAILLFPQYVPLNLAHTAALGAGVFTLFLALDTQ LLMGNRRHSLSPEEYIFGALNIYLDIYIITFFLLQFGTNRRE FCALDCCFQFQAVHPLLSANGLLALFLKQVHLHVGFPVVS GLVINFPVQLCTALWPVSKQLYRRICRIAYSIMSQVLMLENN SCTECILFTDQATVERFGKHAHVIILNNHNFIDFLCGWTMCERF GYLSSKSVLAKELLYLVPLIGWNTYFLEIVFCRKRWEEDRDIVV EQLRLSDYPEYTWFLLYCGRFTETHEKVSMEVAAGLFPVL KTHLDPRTGPTTAVKCLRCFTVAANVQVTLNFRGNPGLGLL YGKKYKADMCVRPPLEDIFDLKEAALQWHLKYLQEKDALGEY NQKGMFFGEQFKARRPNTLLILFSLWATILLSPFSFVLGVFAS GSPILLITFLGVGAGNCHCR
6511	2541	1425	GBEQFLAAAPTECLGQVIGGAGDPTGNASFPSPILGPAFLPKGK TMAINFSDIVKQGYVKMSRKLGYRCNINFRKSSSKGPRLE KYDPKSVCLRGCKVTEISNVKCVTRLPKETKQRAVALIIFD SARTPTCDSELBAEWKYLTVCLGSSRLINDISLGEPLLAPGV QCEQTDRFNVFLPFCPNLDVYGECKLIQTHNIYLDIHNPRVK LVSNPLCSLRIRYGRDATERFTFEAGMCDAGEGLYTPQTQGBQI YQVHSAITLALISGRKRVLLNENKRVLLNKGTHIYGYCTPTT MLPKSAVHHTTUSQNIARASSYAGEGQAASSETDLNRRPI LXPKPSQGDSSBAKTSQ
6512	159	807	FGKSTWFLPSLSRVSASGSKLHGCGYTSQFGFGEPRDSGA EVPSSGSRATGCEKGGVGRAGRCRAPGSSINRKEPRMUCTRKTK TLVSTCVILSGMTNIIICLLYGVGNTVLYASVYVQGEPAADPKK BEDKGDTLKIIIRLEHLENIWKQIQEAPAKPEBAEAPFTDSS LFAHWQDELSPBGRVVALKQFYGYNYLSDRLPLDRP
6513	2	756	FVSPFPGFSLAQNLINQLITDTKQLVHVSFAEGQDQGSAYANRTA LFPDLLAQGNASRLQRVRVADBSFTCFVSIRDGFSAAVSLQV AAPYSKPSMTLEPNKDLRPGDTVTITCSSYOGYPEAEVWDQGG GVPLTGNVTSOMANEQQLDVHVSILRVVIGANGTYSCLVRNRPV LQGDHSSSVTITPORSPTGAVEVOVPEDEPVVALVGTDLATLRCSF SPFSPSLACNLIMQLITDTKQLVHVSFAEGQDQGSAYANRTALF PDLAQGNASRLQRVRVADBSFTCFVSIREDGSAVGLQVRA PYKPSMTLEPNKDLRPGDTVTITCSSYOGYPEAEVWDQGG PLTGNVTSOMANEQQLDVHVSILRVVIGANGTYSCLVRNRPV QDHSSTVITPORSPTGAVEVOVPEDEPVVALVGTDLATLRCSF EPGFSLAQLNLINQLITDTKQLVHVSFTBGR
6514	985	302	VGIFGPTTSSAARMEDLLDLDEHLYSLATSRKMRNRQAQESA QAEHNLHGKNSLTLTGHTSSAKLPRCQGGWAGDSVKASKFR KASERIEDFLRLPQSLNGSDYGGDIPITIEDLEEVQESDFVLQVA APPSIQIKRVMTYRDLNDLMKYSIQTLDDGEIDLKLLTKVLAP SBEVRENRPSWQDDVGDNDHLFTFVSSSVLTWEDEFTQEKEDP AGQARHT
6515	1345	305	GRVSRERGAAPVGGQAGSTQLEVSASASGALGASANNPIVV VKGCGPISIKRKRKRVGQNVRAATVGYILLREGGSAYDAVBG AVNALDDPFRFAGCGSVLMTNFRVENDASIMDQDILGAVESA VQCIANPIKLARLVMEKTPHCFITDQGAQAFKANGVPELPGK LVTERNKKRLERKHEKGAQKTDQWNLGTVAVALDCKNVAV ATSTGGIVNKNVGRVDSPLGAGGYADNDIGAVETTGHEBESIL KVNILARLTFLHIOGQTVBEAADLSLGYKSRVGLGGIIVVSK TGDVAKWTSTSMWAAAKDGKHLFGIDPDOTTITDL
6516	1	1402	FRRLRYLGGQDATAARADLRTGLQGYCPSAFARQCVLVSALQVL KRRSRHRNRNQMPYSTINKELIGIMVGTAGISILLMLVHKVR KPGIMKLEPEFLSLGNTFNSITLODEIHDDQTTVIFORQLQI LEKINELLTNMEBLEKIRFLKBAIPKLEBYIQDELGGKITVHK ISPQIRAKRRRLPTIQSSATSNSSBEAESBGGTITANTDTBES

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			<p>FPVPAFNTRVBELNLDVLLQKRVHLMSESGKSESPELLRHR EKREDEIEFMNRFARAYGDMYELSTNTQSKHYANIGKTLSE INRAMPNGHCHILYAVLCGYVSEFGLQNKINYGHLFKEHLDIA IKLLEPEPFLYYLKGRYCYTVSKLSWIEKIMATLPGKIPSTV QEAHNFLLKARELCPGYSNPYNYMLAKCYTDLLENQNALFCNL ALLAFTVTFKDEKAQKEMOKIMTSLKR</p>
6517	3	1414	<p>GRVWSSSSLNHYVYVRGHABYERWQRQAGWDYAHCPYFR KAQGHLEASVVRGAQGLRVSRGKTNHPLRCAPLEATQAGVY LTEMNGFQCGQPGWMTIIRGGRWSAACAHLPLSLRNILKA EARTLVSRV.FBTRAVGVYVYKNGSHRYASKEVTLSCGAIN SPQLMLSGIGNADDLKKLGPVCHLPGVGNLQHLIYITQ ACTRPITLHSAQPLKRVICGLEWLNKFTGEGATAHLESTQGF SOPGVPHDIOFPLPSQVIDHGEVPTQOAYGVHVGWRGTSV GWLKRSANPDHPVIOPNYLSIEDIEDRLCVKLTREIFACE ALAPFEGKELQPGSHIQSDKEIDA FVRKADSAVPSCTCKMGQ PSDPTAVD POTRVLGZENLRVDASINPMVSNINAPMTIMIA EKAATIIKGQPALMDKQVVPYKPELTATQR</p>
6518	242	1098	<p>PAWNPSEPRTEVPRARRSPFLPPPPARRRRRRLRAVPOPSR RELRERRAPPPPTMGDGSERSKAPSLPRPCCPQPGSSKRTW LSCXCPADFQKQEDDSAPSTMSQSLFSEETTSNNNTSIT TPTLSQSQPLPTELAVTSPSEKQCPCTAHVSLITPTKRS GTDQSSENEASVPRRLLETERSEETSSKSKSRPCQCT KLELVQRELGSRCQGVFCMLRLPEQHDCTFDHMGREGAEM KMVLDRKVGSRQRIEGGCS</p>
6519	3	1113	<p>ERKNAEPSPVHCVAATAATVSEKFPFKGLQLSSRDPPGSL AKKVRTEEKAPRRVNGEGGSGNRSQQLQPPAAPSPQSYGSPAS WSFAPLSA.PSPSSSRSSFSFSACTAVSSASASLQDQPRKLL VPTTLHAQPHILLPAAAAAASANAASRRPKEKREKRRHGL GGAREAGASREENGVEKPLPRDKIKDKIKERDKERKKKKH VMNEIKKENGVEKILLKSGKRPKTNIEDLQIKVKKKKKKKH ENRKRKRPMYKSIQITICSGLLTVDVEDQAQGIINDNIDKYV KNLDTKNYDSKIPENSEFPVSLKEPRVQNLRLDLTLEFKQLI HTECPNGGASVTHCLQ</p>
6520	3	1113	<p>ERKNAEPSPVHCVAATAATVSEKFPFKGLQLSSRDPPGSL AKKVRTEEKAPRRVNGEGGSGNRSQQLQPPAAPSPQSYGSPAS WSFAPLSA.PSPSSSRSSFSFSACTAVSSASASLQDQPRKLL VPTTLHAQPHILLPAAAAAASANAASRRPKEKREKRRHGL GGAREAGASREENGVEKPLPRDKIKDKIKERDKERKKKKH VMNEIKKENGVEKILLKSGKRPKTNIEDLQIKVKKKKKKKH ENRKRKRPMYKSIQITICSGLLTVDVEDQAQGIINDNIDKYV KNLDTKNYDSKIPENSEFPVSLKEPRVQNLRLDLTLEFKQLI HTECPNGGASVTHCLQ</p>
6521	184	1798	<p>KLFRMATDTSQBLVHPKALPLVGAQLTHADLGEKVSDESTP TRTVNSTRETTPKSKLAEGEERKEPDISSESESVTSVEQENE TRPATSSABOPKGBENEEKRWGSEFTKHEHDSQSKREKX VKTTIPSWATLASQILARQKQTPWASSPRKMAALTEATNAC POKSGASVVAIRKYI.IHKVPSLRLERRGYLLKALKRELRGVI KQVKGSGASGSPVVVQSKRTPQKORNEKRSNAVDPEQVXLE DVLPLAPTRLCEPKESASYSLIRKYVSQYTPKLVDIPOLKKA LQRAVERGQLSQITGKASGTFOQLKSGEKLPGGSLMEYAILL ATAAMNEPKTCTTTALKKYVLENHPTGINSNYQHLLKTLQKCE KNGWMEQISGXGFSO*FQLCFPTTSPGVLPFKKEPDSRDEE DEDESSEHSEDEPPKRLRLQKTPAKSPGKAASVQKRGSKPA PKVSAQKRGARLPEKAPPKAKTPAKTRVSTTVIKKPSGSGS KKPATSAKKE</p>
6522	1042	391	<p>KNLWLRPSRSHRTPBSGRVLSLRLPFPFGNALSGSTFAPCWRED</p>

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6523	2	1097	ECLDYVGLSLHRRFVVGQGLTSCLELLAFILDEAFGAGGL SRKRRGLKLLRLRSGQGLDESNRLRLGLRLVLRHDLLEHLA RKRKRSPSPERYSYGTSSSKRTGSCRRRRQSSSSANSQOSP PTKRRRSRGRPSGGARRRRRGPPHPSSSSQSPDPLPKAK ASCTQRRRTAALSGERTAGRSPTALAMASFNIDIVKQGYVKI RSRKLGI FRWCMLVFKKASSGPPRLERK PDEKAAVFRNFHKVT ELHNIKNITRLPRETKHVAVALI FDETSKTFACESELSEBWC KHLQMECLGTRLNDISLGEPLDLAGVQRQNERFNVYLMPTFN LDIYGECTWQI THENIYIWDIHNKVKLVNPLSLRLRYGRDST WFTFESGRMCDTGEGLTFPTQREGNVI QKVHSATLAIASQHR LMLSEMQKARLQSLTSPWTLKSLISLPSAYWHHITRONSVGE IYSLQGNHENRHSDLTGKSKCTSNRFLSENAPLVMYGITHLFL NDTSTCKVVHDL
6524	2	1097	ASCTQRRRTAALSGERTAGRSPTALAMASFNIDIVKQGYVKI RSRKLGI FRWCMLVFKKASSGPPRLERK PDEKAAVFRNFHKVT ELHNIKNITRLPRETKHVAVALI FDETSKTFACESELSEBWC KHLQMECLGTRLNDISLGEPLDLAGVQRQNERFNVYLMPTFN LDIYGECTWQI THENIYIWDIHNKVKLVNPLSLRLRYGRDST WFTFESGRMCDTGEGLTFPTQREGNVI QKVHSATLAIASQHR LMLSEMQKARLQSLTSPWTLKSLISLPSAYWHHITRONSVGE IYSLQGNHENRHSDLTGKSKCTSNRFLSENAPLVMYGITHLFL NDTSTCKVVHDL
6525	1	1859	GESPFESEESI FNPSSSGRSARTVSSSFCSDTGNPSSQSVS PVKTPSDAGMSPIGFCPSDEGTFPKKCTIGMVGEOSIQSSRYK KSKSGVLKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSR NRGPHGRNSGASSHKPGSPSSPSEKDLLEMLCNRQLSPVNIHP STAPSSPSSSSSGSYKSGDCSPIMRRSORYMSCGENHGVFPNP EQYLTPLOQKVEVTRHLKTLKESERLLEHRESEIVELKQSLAR MRDWDIEECHRVEAQLAKKEARKEIKQLQVITETNRSSLADKD KGQIKTYFVDINIQNKLESLLQSMHMHSGSLRDELCLDFFDC PEKSLTLPPLTMDGLSLSEQVTEGEGADRLLVLDGSIANSTD LFDRIYATTTSSDLELVSTPMANVLELLPTVMQCEBGSVVV ERAVQTDVVPYPSAISRITQVFLQKQDQCPSSLSAEPSEFSD MSPSPSSLSALVDOLTPRNPNSAILSPVETPVANVDVBYENR LMRELOFACVCEKLDGVLPLARGVVPVQVSSSFLVDLLAVAA PVVPTVLAFASTQRGGTD PVYNIAGALLGCCVVALISLRTAFR IKT
6526	2	2034	SGRAGEPEEWGRQIIDSKETNIPFHSIDSQLEAYSSGKGCN GRVVPDGGRYDVHLGERMRYAVVDELASEVRRCTWFKGDKD NKIVPYSSSQVLEETYMALVTLDEWKKLESFNRRIILHNP KIMVHYQPVAGSDWGSPTMEQORPRTVKGREVENISVDHCGRP LQIDHLVFPVHIGPACDLRFBSTVQCNDPFRSVSLNLQTHPK KAQEMQIGRVEFLPVNWHSPHSTGVDVDQLRTILPSINRLRH FINDTILDVFFNSPTYQZIVDTVASMMRLIYLFLORPDPFK GGVS IAGHSIGSLLEDFILTNQKDSLGDIDSEKSLNIVMDQGG WTFLEEDLKLGLSRFDTFEKKNVIALALCTDRLDQIGIIP LQPRKILNVFTSKNSGIKDLPQASANTIPKSEFCSSN TENGDLVDGIGQVSYKPELTYKPIFFAQSPTQMFTEVGL KHIDPNYPPTCKGPNYHPTDPAVYRIEMVVPQVEFEMPL PHIKGRKIMILELREGUTMSNDLKNLNLGSLRMKXSETPAPY PALQASETPRETRAEPSTSEKSDVNTERTSVAVKEEVLPIV GMINGQGRIDYVLQKPIESFHYELFALQSHLCYWESEDVLLV LKRIYQTQGI FLQPLQ
6527	1	922	GNVPLSRILPSDACKLYKQGINRLDITLTDITDMKCRGDEL FIPNGDAAPSESFVVLNKGQVYQRIHEESEMTSEBTEILMS SDIYSATLSTKSISFTRAQTGWLFRDKTIRVGNFLADFYLVNG

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6528	1	1073	LVLESKKKRREHLSSEEDILRNKAIMESLSKGNINQNFEPFIRRO SLTPPPQNTITWEEYISAENGKAPHLGRELVCESKKTFFKATIA MSQEPFLGIRLLNVLEVVAFFKHNKLEFVQMKLPFGFVKL DIPVFPTTATVTFQFRYDEFGSITPTIPDDYKEDPSFDPDL LIGFAAAEPFCADAGMHRALGRKRGVNLRLKILFCVLGLYIA IPFLIKLCQGIQAKLILPNPVRVPYFIDLRKPKDQGLNHTCNYI LQPEEDVTIGVWHTVPAWNNKAGQCKQMYEDALASGIPITILY LGNAGTGGGDRVELYKVLSSGHHVVTPTDRGWGDSVGTPE RWMTYALHVTORIKASGDNVYIWSGLSTQVATNLVRLCE RETPTDALLESPTNIREKASHPTPTVYIYTPWDFWFLDPT TSSGIKPANDENVKHSICPLLILHARDDPVVPLQGRKLYIAA PARSFDFKQVFPVPHSDLGVRHKYIKSPELPRILREPLAKSE PEHQH
6529	363	2215	THIRYNKIGVVKTMSCGNFVETLKKTGYPKADNLNGEFDWLF BQVEDSFLKHFQGNVNBQNVLSERELEAFSILQKSKLILBGA ALDEALKTCKTSDLTPLRDDKELEKLEDEVTLLKRLKIKQR RNKQMLASVTSKSLRLNAKEBAATK\KOSQGLINAMITKIS NELQALTDVETQMMFPHSNLQGGTNVPLVFLSOFSELYKTS EUSTAALTLYTKRFFQGHVEVSSNBSQFFNFLLKIQ7TSICD NGLIELERRLEWAKIPLAYICAGHGLHLEKASNSMKSIIKAE FELHSLTSKADKBNLAKISITSEEMKLEFVQIKORBLPA VRENAQLANPVVKQEDPLQIARQDYTAQRELVAQLIKQKA SFEILLQSYEIELRKHRIYRQLENLQVLSQNNM\YQLEML TDPVSQQINPMTITDKYDTHRLYQVLEGENKKKSLFTHON LEEVAELKKNISLVQDLAVSAQHSFFLSEKKNQDMLCDTL YQGNQOLLSDQELTEQPHKVESOLNKLHLLDILADVKTREK TLANNKLHQMEREFVYVLEDEYDKDIVELETQSKIKAVSL ED
6530	128	2986	GAARHGAIVCVHPLLWGSSTIMHDLCLVFAFNAKVVVSDIQ ELYIRVVDRVIRGKTVAAYRVVLDRHKKPLAKYFPFMDLKLRA ASPIITLVALDEBALDNYITFLIRGVAIGOTSLTASVTNKAGOR INSAFQQIEVFPFPLRPRVITLLIGATWQVTEGGQFQPSNLL PSISINBSVALVSAAQLVCLATGWTFQGLQVADATSKVIT SQDLQVQVLLRAVIRAPINMRKTGTQPIVYTGTHQNF SPGNVAPGLTFHMSVTKRDVLDLRGRHHEASIRLPSQYNFAMV LGRVKGRTGLRAVVKAVDPTSGQLYGLARELSDEIQVQVFKLQ LLNPBIRAEQILMSPNSYIKLQTNRGAASLSYRVLDGPEKVPV VHVDEKGFLAGSMIGTSTIEVLAQEPFGANQTIIVAVKVSFVS YLRVMSPLVHITQNKALVAVLGMTVPTVHFHDSGDFVFAH SSVLNFATNRDDFVQIGKQNTNCTVVRTSVGLTLRVWDAH PGLSDFMPLVQLAISPELSGAMVGDVLCIATLTSLEGLST WSSANSILHIDPKTVAVARAVGSVTVYVEVAHLRTYKEVV SVRIRIMARHAPIGTSPQRATSKVIVAGDRSSNLGECETPT QREVIQALHPETLISQSGQFPAVDPEPQVETVPEQDITLGA QYQCSITMHRITDQRKILSKRTALVVSLESSHSPSTQVGA EVFPSPGLFADQAEILLSHNYTSSETVFGADEVLENLEVSOG PAVLFAKEKSGFQWPSFITTYGVOLDPAAGSQPLSTLTTPSP VTNQRALAPVIAFVVDERRGDPGYASLTFQRLDSYQVMTFLP ALLAGTAVMIYAYTVCTPRDLAVPAALTFRASPGHSPIFYFAS SPTSPINALPARKASPPSGLWSPAYASH
6531	845	1425	PSASIPPSASPDVDPDIRTCHFLVEDPFSVCGISGSEKCTISS SLCMVITIVYDVVRFTVIRGCOQYISYRCQKRNITYFAEYNYQA CCQCYDYNSSWSPQLOSLPEHHRPLALPLSDSQIQWFTYAL NLSLPLPNFHAGTEPDGLDPMVTLISINLGLSFAELRRMYFLNS SGLLVLPQAGLLTPHPS
6532	2	954	ANGPSEVVNQSLFPEPEKPPAPQVLGLPQGGPLTRQVAPFPL

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			ITDSTGTHLVITVINKNAHSPGLSRGS PQQFSSQFGSPAPAFSA QMDLEHFLQPLPGTPTSLKKKEPPGYEAMSQPQKQNGSSSQ QMDLDFLILIQSGSISADFKPEPTSLPGKEKPSKTVCSPLAAQ PPSAAILKQAFPPFGSPESLFORLEDLESSTGLPLTLGSHDGP EPLSLDDLHSGMLSSAILDHPSPMDTSELHFVFEPSSHTGL DLDHGLDSMCWLELSSGGFVLSLAFLETTAFSLSTDFLDGHD LQLHWDSCL
6533	1798	373	STTSVLARVEPPRKSQGVGAARLEPPGGSRFLARACVLAALAVL ALLERNNADMSAHSMTCFRIATAKELIKRAESLSRSRKGQIEG GAKLCSKLKAEKFLQKVAGKVAIKESHLQSTNLTILRAIVES AENLEBVVSVLHVPYDTTLGKQTLVVVDVANGHTVWKAIGR KAEALHNIWLRGGQYDGSIIIEQAEFP.QASHQPPVQVSNPHII PAFVNSVSSPQAEKLEKNGISVRODITVAVNALLDHPSELQPSSE ESDDGPELLQVTRVDRENILASVAFPTLKVDCRVNLDITTL TTYVSALSYGGCHPIFKKVLTEQAEQERKEQVLEQLEAFMKD KELFACESAVKDQFSILDTLGGQFERAIVLQIKRINVPDQPS EKALRLVASSKINSRSLTIFGTGDTLKAITMTANSQFVRAANQ QVRSVFHPHPRALTESKEALATELEKDYTDSEH
6534	47	596	YKTSFVLSARVPMKQVFSKALEHTSSWSLQTLSEFLFSGDLA EKSLQCFPCSMLELLEPLGLGHFVLRITARAGSVQPDHITVS EQASLELRKNSYGAATYLLPFWNERTVEEATLLVCLKPWRVAS LNKKEKEDBSPQLLQSRYNVLKACHLLPLIRNLTSGDSLQSAQ PHCPQQL
6535	250	964	LTKTFFRDVAIQDRLLPKKNLETLTLTAFLLEIDKAPSSSHARLS ADATLLTSGTTATVALLRDEIELVSVASVGDSEAILCRGKPMKL TIDHTFERKDEKERIKKCGGFVAMNSLQGFHVNGRLAMTRISGD LDLKTSGVIAEPETKRKIKLHADDSEFLVLTGGINFVNSQEPN DFNQCHDNPNEAJAVTEQAIQYGTEDNSTAVVFFGAGVKYKN SEINPSFSRSPASSGRNA
6536	242	1174	SLVKEMVNGQGLFLKQBQAHDDALMEVAGTKNKKENSETVVTGS LDDLKVMWGRDERLDLQMSLEGHQLGVVSDISHTLPIAASSS LDAHRLKWLDENGKQIKSIDAGFVDMTILSPSPQYLATOTVH GVNIIPVFSQKKEYSLTQKFTLSIASPDPDKFLASGADDOI INIFDLATGKLLHTEGHAMPISLTIPLSPDQLLVTASDDGYK IYDVQHANACTLSGHASVNLVAPCPDDTHTVSSGSDSKVYN DVGTATCVITFFDHDQDQWGVKYNNGSKIVSVGDDQSHIYDC FI
6537	1638	921	NRPFPPTQCPDPSLVYRVDVPEVAKDASFRNTSGPLDLDV MITYKLNMHTQTVDFVRSKHAQPGGFSYKMTVMEAVDLDGLV DESDPDVFNSFHAFTQAGIRKAHFDKDFHLVGLHDLGKV LALFGEQPNVAVGDTFVPGVCRQASVVPDSTFQCNEDLQDFRY STELGMYQPHICGLDRVLSMSWGHGDSARGGQGGGRWGVGOGG ARAVPAQDTLSPQSTCTR
6538	3345	2412	PYLYDFLDALITCOTAPBEAFIKLGLAGNLTETJRLRLTKOVOR ARHNVDRAIKKAVNRYDRI MEKYIPIVMAQAKIYWNLENYPMV EKIFRKSVEFCNDHDVWKLVAHVLFMCENKYKSAIGFTPEIVK RHTDNLNWSAIVLWNLCSYIHTSQNEKASELMRRLEKEEBEQL SYDDNRMNHLCTVRLVGTLCRKAQNEGELGRLKGLSPFN KKLGTDTWTYAKRCLSLSLNNSKRWVTHPSVIGQCVQFLGHC KLYGTNIPAVIEQPLEEERAMVQKNTVIDEBSQLALTYETIGW NK
6539	218	339	PLGASAPHPHPSLAPHPDQFETTPVVDLRLAMELWGPV
6540	3	391	LERLNLILLRRPEDANASCPTELGRAVTDHPRDLNMEKPVYDE KQHANLPLTIEIKRILQLRVLRREDVVLGHPMTPTICGSLPL IMNQLYFDGRYSSDSFNRLLVHKKIDGVEDMLLELFPDD

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6541	1165	536	RTLVQRRIIMLRKPARGRDLRGRGRGTPRGGRRGLLTPDEFP RFEGRKPDNDGNREPQGHENPLTTPDIPPDHGHSPASRE RSSLQGMAMASLPKRPKPHDGPSTSEHREMEAPGGSPEDRG KGRGSPGAPQVFPKSGRSSSLDGEHHDGYRDEFPGGPPSGGTP SRGGRSGSNWGRGNNNGSGPPRRGASRGGGRGR
5542	3	3775	SWFRGREGTGGHPCALRTIRWQGVRYIEGHGALYLAFARKEGT KRGFLSKTKTARASTWHEKWFALYQWLYTFEGRQS CRPAGMYLL EGCSERTPAPPRAGAGGGVDRDALDKGYVYVILPSHGGQKPLE LRCEERODGKEWMEAHOQASYADILIEREVNKKYIHLVQIVET EKIAANQIRHOLEDDQTEIERLKSEIILANKTKMRMRPQSNQSE DEDPDIKKIKKQVSFMARGVLCRRKWKTIQVQYICSPHASEMRKR NQIVFTWVEASESYVHQLYILVNGFLRPLRNAASSKKPIISHDD VSSILQINSETIMPLHBIHFOGLKARIANWPTILADLFIDILLPH LNIYQEPVRNHQYSLQVLANKQNRDFDKLLKQYEANPACBGRM LETFLTYPMFQIPRYIITLHELHATPHEHVERKSLFPAKSKLE ELSRVMHDEVDSTENIRKNLAIERMIVEGCDILLOTSQTFIRQS SLIQVPSVERGKLSKVRIGSLSLKKEGERQCFPTKHFPLICTRS SGKLLHLKTSVLSLIDCTTIREPOASCEPDSKGSQVGHGDLF KIVVEPORAATVILLAPSRGEAMMSISIQCVENIRNCGMLR TIVFENSKYVPMKISDARADKDDTICSTKASCKVQPIR VASVERLLERLTDLRFLSIDPLNTFLHTYIETFAVYILKQSD IVKRPFTIPVRSLELPAPTSQNNRGENVDGKSPRLCRKFSBP PPLAVSRTSSPVRAKLSLTPINSKIGALDLTSSSPSTTTQS PAASPPPTTGQIPLDLSRGLSSPEQSGTVEENVNPRVLDLCK LKRSIQKAVLESAPADRAGVSSPAADITELSPCRSPSTPRILR YRQPGGTADNAHCSVSPASAFIATAAGSGSPPGFNTERTC DKFPIIRRTATNRVLNVLRLWVSKHAQDFELNLSLONVNLILE EVLRLDPLLQPERKAAANILMALSQDDQDDIHLKLEDIQTMDT MKAECPESLSAMELABQITLLEHVIPIRSPICEPFGQNNKLDK NERTPYIMKTSQHFNDMSNLVSAQINQYADVSSJANAIEKVVAV ADICRCLENTNVLSITSALNNSATIRLKTWAKVSKCTALND KLQYTSSEGRFYMRLRETLNCPAPFVYLGMLTDLAFIREGT PMPTFEGLVNFKMKRMSHILIEIQFGQTSYRIDHQKVAQYL LDKDLIDEDTILYELSLKIEPLPA
6543	1857	950	FVSGCGRIGTGLSNNANAEARVSENVFGLGAECAACTHPLDL LSKVLHQTOQEVKLRMTGNALVRVTDGILALYSGLSASLCQNT YSILTRFAIYETVRDRAKSGQPLPHEKVLIGSVGLAGGFVG TPADLVNVRMNDVVKLPGQGRNVJAHALDGLYRVAREGLRRLP SGNTMASSRGALVTGQLSCYDQAKQLVLSLYLSNDNITPHTVA SFINGGCATFLCQLDVLKTRIMNSKGEYQGVPHCAVETAKLGP IAFYKGLVPAGILIPHTVLTVPFLEQLRNFQIKVPS
6544	630	79	PSPCFTRSRLDQGPMMAGLEAWLSQNTSLLHQPSRVVRRASTS EPSTDPPEKPTLNPSPAGVFOQHPLELMSSFRFPGRNLMQY RSHLEPSGNPLPATPITSAPSAFPASSQGPDTAPRPPPOEAR GQBSIQMSSEVRAEPOKESEKKEKEKEBENAPLEAHLG EGKQKECP
6545	176	560	PHSHAAALPAWTPDILILVNLCLPLAQAALCHVCAINGDN CFNPRCPANVAYCMTRITYTTPKPKVSKSCVCFCTVYDGY SKHASTS CCOVDLCNGLATPATLALAPILATLMLL
6546	1657	364	HLNLGLDEVAAPFADLGAIVKHFCLFCTPRVPEYVAVKNS SPGVLLVLAQIGIGFSCKAKMEISVHIGIFASKIKCANPCXQ IAQIYAAKHGILQLSFDINMKIAKVVKSHPSAIVYLCTATDS HSLSCLSLKFVSLKSCRHLENAKHHVEVVGVSFHHSGCPD PQAYQSIADARLVFEMGTIEGHOMHVLDDGGGFPGTGAKVRF EETIASVINSAIDLYFPEGCGVDIPAEIGRYVYTSAPTAVSIIA KKEVLLDQPGREKNGSTSKTIVYHLDEGVGYFINSVLDNICP

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			TPILQKKPSTEQPLYSSTLNGPAVDGDCDCVAGLMT.POLHVGDW LVFDNMGAYTVGMGSPFWGIGQACHITYAMSRVANEALRRQLMAA EQEDDVEGVCKPLSCGWEITDLCVGFVPTTASIM
6547	1	541	LHSKYLAAPALCSQPGMMRCCRRCCCPHMLRFLDLLPLVLL PLAAAAAGPNRCDTIYQGFACELI RIGDSMGGRGELETTICRSW NDFHACASQVLSGCPPEAAAVWESLQGBARQAPRPNLHTLOGA PVHVRERGTGSSTNQTTLRATAPALWAPAPPLAAATATATLL RPLA
6548	2	219	FVSRILSVRDVRFPTFLGSHGACNMHTDPTSYAAYVPIETDAEDG IKGCGITFTLKGTEVGEIKILSRFQNA
6549	73	1490	ETGRVCEADAPAGSRRRRRREKAAATQPTLPSPSSSSPTSSRAA ARAPSKAPARLGRPRAREBPDPGRYRQETIQARKHKLIMC SVAALKLWFLTDRIREDYPOKEILRALKAKOCEELDPRAVVM DEVVLTIEQGNLGLRINGELITAYPQVVVVVPTFWQSDSDIT VLRHLEKMGCLMNRPAQLLNCVNEFWTFOELAGHGVPLDPTFS YGHEHNFAMIDEAEVLFPPMVVENTRGRKGAFLARDKHLLA DLSHLIRHEAPFLQKYTKVESHGRDVVVIVGGRVVGTMLRCST DGRMGQSNCSLGGVGMKCSLSBQGLALQVSNILGMDVCGIDLL MKDDGSPVCVEANNVGFIADKACHLDVAGIADYASLLPSG RLTRRMSLLSVYSTASESPFGLPASTADVNMSSASSSVSDS PESTERELLKLPGLFWOLLANEILKLVLD
6550	2293	522	FVSRERDAPDCHIKQKILANRSGQSYARQSSSSGCVNYLVYFP LVSILIQPLILGLVLFVYGVGNVUS TSVLQATERRABCLSQ LIGLITASQSNILKELNFTTRAKDAIMQWLNARDLDRINAEFR CCQGDRIYTNQRYMAAILSEKQCRDQFDMKKS CDALLFML NQKVKTLEVEIAKEETICTDKESVLNKNKVAESQVCEVCTIRE LQHQRQLAKEBQLKVQALCLPDKKPFENDRLNMRDSIIPRS LONLGNLYHPLGSELASIRACCHNFSINSSKVEELARSRAD IERVARENSDLQOKLEAQOGLRASQEAQKVEKAEQAREKLG AECSROTQALAESKAVLRKERNLAKLEEKKEAEQLRMELAI RNSALDTCIKTSQPMMPVSRPNQGVPTQPIDPASLEBFFKRI LESORPFIAGIPVAFSSG
6551	157	748	IQPDPDRNMTLAAYKEMKELPLVSLFCSCFLADPLNKSSYYKE ADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSPDGVPEPN ASLPRRRDPSELEIQKLEAEERRAYQBAELLEHLAEKREHER EVIQKAIENNNPFIKAKBKLAQMSNKNRRAHLLAMLERLQ EHDKHAEREVKNKELKEEASR
6552	157	748	IQPDPDRNMTLAAYKEMKELPLVSLFCSCFLADPLNKSSYYKE ADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSPDGVPEPN ASLPRRRDPSELEIQKLEAEERRAYQBAELLEHLAEKREHER EVIQKAIENNNPFIKAKBKLAQMSNKNRRAHLLAMLERLQ EHDKHAEREVKNKELKEEASR
6553	2	1807	FVNSEMAAHLGYGRVNLNVLRAVREKELREFLDCAGSKAVVWD KYLGTGPGSLAQYSLKKEHVEKMTLKGKRLPAADVKNIIFFV RPRLELMDIIAENVLSEDRRGTRDPHILFVPRRSLICBQRLKD LGVLGSPFHREYSLDLPFDGDLMSSESGAFKCYLSDQDTS LYHAAKGLMTLQALYQYTIPOIPKGECARQVARNMIRMKEFTG SQNSIPVVFQNLILLDRNVLLTPLATQUTYEGLEIDEIYGIQNS YVKLPPEKFAFKQSGDGRDLPTAKKLQNSAEELIYASIRDRN FNAGSVLSKAKKIIISAEFEHNKATVGEIKQFVGLPHMQAA RGSILANHTSIARLIDKVTTSREDFOKTLYBGRFASDITDQVW YIRDCTAQKHSILKVLRLVCTQSGVNSGSLQKVLVLYTYRELLAT YGYRHILTLHNLEKAGLLKQOTGGRNNYPTIKTLRLWMDVNE QNPITDISVYVSQYAPLSVRLAQLLRSPGRWSIEEVLRIILPGPHF BEERQFLPTGLQKKRQPGSNRVTLIFFLGGVTFARIAALRFLSQL EDGTEVVIATTIKLMNGISVIRALMEKPF

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6554	119	1244	FEMGSQSVESGALRVVTVGGGFGGIAARSQALQALVPMFLVM KDSFHNVAALRASVETGFAKKTPIYSYVTPKDNFRQGLVVGID LKKNQVLLQGGALPFSHLILATGTPGPKG7NEVSSQQAATQ AYEDMVRGVQSRFIVVGGGSGAGVMAARIKTEYFEKEVTLIH SQVALAKELLSPSRQGVKXILLKRGVQLLSERVSNLEKLPLN EYREYIKVQDKTGVAINLVLTCTIKASAKRAFAESRLAS SGALRVNHHQVGHSHVYACDCADVTTPAAVLAGLIANLAV ANIVNSVKRQLPAYKPGALITFLSMGRNDGVQGISGYPGRLM VRLTKGRDLFVSTSWKTMQSP
6555	1552	498	IHMALLRKINQVLLFLLIVTLCVLYKKVREGTVPNDADESE TPREEEIPVVICAAAGMGATMAAINGISNTDANILFVYVVG LRNLTIRIKRINSHKLEINFKIVEFNMGLKGKIRPDSSRPE RLQPLNFRVFLPLLIHQHEKIVLDDDDVQGGIQELVDTTLA LGHAAAFSDDDCLPSAQDINRLVGLQNTMYGLDYRKAIKDGL ISPTSCSFNPGVIVANTEMKHQRITKQLEKMGKQVVENLYSS SLGGGVATSPMLIVPHGKYSTINPLWHIRLGNPDARAYSEHFL CEALKHNGHGHKPNDFPSVHNDLWMSFVFPDPAIGFVKNHHS
6556	241	1449	ASLCRSCFFVHVLVILPGLSQSPFTSGFLDIDGVLVRGHRVI PAAKAFKELLSPSRQGVKXILLKRGVQLLSERVSNLEKLPLN EYREYIKVQDKTGVAINLVLTCTIKASAKRAFAESRLAS SGALRVNHHQVGHSHVYACDCADVTTPAAVLAGLIANLAV ANIVNSVKRQLPAYKPGALITFLSMGRNDGVQGISGYPGRLM VRLTKGRDLFVSTSWKTMQSP
6557	2598	1534	RKCGTSCHLPRDVLTRACAYQDRGQQRLEWRDPSKYCPSYN KSPQSNH PVLRLHFEKADDSERIAPMRNGLVPMFKESDP SKLQFNNTNCRSDIVMEKRSFKVPLQGRRCVVLADGFFYEWQR CQTMNRQRPYIYFPQIKTERKSGSIGAADSPEHNEKVMWNRLIT MAGITCNEFPBGDVLVSTTITVDSCKGLSDIHHRMALLDG KEAHSWMLDRPSTQALKLHPENTTFHAYSVVNRSRNT PECLAFVDLVKKELRASGSSQRNLQWLAKETKEDSKTPQKE ESQVPMSSQFLQKSPLPTRKGTACGLLEWLKREKEEPVAKRP YSQ
6558	21	1138	PHGRKRGGRKMEGLSCLEGGREAAAREKGFTEVKRRLCVFVAS VASCDAAVACFLAENDWEMERALNSYFPPVEASALERPRPETI SEPKTYVDLlnkKFTDSTISKISPSIEDTQENSGNPSLITWNID GLDNLNLSERARGVCSYLALYS PDVILQREVIPPYYSYLLKRRSS NYEIIITGHEBYPTAIIKLKSRVKLSQRIIPFPSTKMMRNLIC VHVNSGNELCLMTSHLESTRGHIAERNNQKMWLKMKEQAPES ATVIPAGDTNLRDRVTRCGGLPNIVDVNHFGLKPKCOYTWND TOMNSNGITACKLRFPRIFFRAAEEGHIIIPSLDLGLGLKL DGRFPFSDHMLGLNLDITL
6559	3	364	GPRLSGLPTRPKRLKAMQPTIAMDCASRSVPTGPAITICSS DKSCGVCCLPSTCPRHFWLLEPTCCDNCPPPHCHPQCVPTCF LINSQPTPLRLTLNLTTPQCCPELDRQ
6560	3	1435	TATSGGINTLRKKRCHWRPRLPQSCVGVTEGLQVDTDSERAKG GVDHTKMSLHGASGSHERSDRRSDRSRDSHRTESQLTIPC IRNVTSPTRQIHVEREKDMSSSHPSRPRQKASPNGSISAGMS SKNSSQSSSDGSKCTAGEMVVFYENAKEGANRTSERVITLVD NTRFVVDPSIPTAQPNTMLGRMFGSGREHNFRPNEKEGYEVAE GIGSTVFRAILDYKGTIRCPDGISIPLEACDYLCSIFEYS TIKCRDLNMLHLSNDGARRQCFYFLEENILPLMVASAQSGER ECHIVVLTDVDDVWDEEYPPQMGEEYSQIYSTKLRFKFKYIE

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5561	3	1086	NRDVAKSVLKERGLKKIRLGIQGYPTKEKVKKRGGRPEVTYN YVQRPFIRMSWEKEEGKSRHVDPCVCKSKSITNLAAAAADIPQD QLVVHMPTQVDELDILPIHPPSGNSLDLPDAQNPWL
5562	1	1562	PGRFRFRSSSSSRWPFADCLLGRPASLLSPSPSPSWFSHS PCPMAALIDLSFMYRMFKCNCLNVGNSKYVFITGCDSGFGNLL AQQLVDRMGQVLAACFTREBSQKLRDRTSYRLQTLTLDVTKSES IKAQAQVVRDVKVGEQGLWALVNRAGVPLSGPNEWIKKDDFPVKY IIRWNLGLIEVTLHMLPMVKRARGVNMSSSGGRVAVIGGGYC VSKFGVAPSGDIEIRLLIYVGVKVICIIEPANYTALGKENLES RMRKLMEFLQETRDSYGSDYFRIVYDILANKIKVABSPRVRDI NSMEHAIVSRSPRIRVNGDLAKLVIPLAKLPTFTDFTLSRY LPRPADSV
5563	1319	2694	MSLYDIRAHKAQLLRFPASSDSKALBQRTRLTPTKLEHLDV LYENFLGRSEGVPSVSGMLTEKADFPYEQMLTEPCVFSGGWL WRFKARHGKIKLDAASSEKQADHQAACFCAPFRSLAEHGLGA EQVYNADETGLFNRCLNPTPEGGAQVPGKQKDRLLTVMCANA TGSIRLKLALQKCSGPRAFKQIHLPLVAKQANWVKRIFPS DWFHHPVPSVREHRTIGLPEDSKAVLLDSSRAHPQAEILVS SHVFTFLPASVASLVQPMBQGIIRDFFMRNFINPVPLOQPHAR YNNIDILPSVACANAVPSHVFVRNRLNPSVAFAGSSSEEE LEACIEFPKPMKSFHLLVTEBSSCPQQLRGRQASNGVAG REASGRPPAATSPAEVYMSSEKPKALQQRGGPOGEVYAME QAAVAFDAVLRAEQPCFSAQEVQQLRALRAVFRSQQVRRRR GALGAVVKVLAQBGPGGCGATAGSPLEPCSTAGDN
5564	1	975	LARPAQVLLREPEGAGPPVPAHGLVHHLGGGLRERAHPLDA HEHPLCDQMFWRMGHGLRNVANSGVVGIGYDRTAWVYTG GYGGCGFQGLASSTNSIYTSQDVKCVHIYENQRWNVFTGYTSRG LPTDRYMSDASGLQECTKAGTKPPSLQWJWVSNWFDPVSPGG TDQBGQYASDFPNSYHSGKIMKDFVRRRCWARKKLVTSGPWL RVPPIALRDVSIIPESPGAEGSGHSIALNAVSDKGDVLCRLGVS ELNFPAGSSWLEVTIDQPFASISIGACYQVWAVARDGSAFPRGSV YPSQAGDCWHIIPSPRQLKQVSAGQTSVALDEGNMLMYRQ GITEPSYPOSSNHSNVCVSVGPLDQVWVIANVQGSSELS RQTVCHRTGVQPHBKHGWDYIGGGWDHSVRANRATRAPSS SQBQEPSPAEHAPVCC
5565	1464	999	APGSCALWSYCGRGSRAHKGCCLLGRSSPQDILLARLLSQE KRAAETHFGPETVSEEEKGKVYQVFESVAKKYVMDNMMSLGI HKWVKDILLKWMHPLPGTQLLDVAGGTGDIAPFLANVQSQHQR KQKQRLRAQNLWSWEEIAKEYQNEBDSLOGSRVYVCDINKEMLK VGKQKALAQYRAGLAWVLGDABELPDDDKDITYTAFGRNV THIDQALQEAHRVLKPGGRFLCLEPSQVNNELISRLDYLSFQV I PVLGRVLAGDWKSYQLVBSIRRFPSQEEFKNLEADGPKYKT YBSLTSGLVIAHSFGKL
5566	3	1385	RSVANGLTKRHWLKLNGRYISLLIAVQIAYLVQAVRAAGKCD AVFKGFSCLLKLGDSDMANYPQGLDDKTINIKVCTWTFDSHST VTALTCQCBKADWKLKBSRNLMIQGLFELCSGSGAAGS LLAPFPVLVLSAALARTWLSF
			KYSAQPGQTPFEGGLGARNALIKALVNLGCLGLFLFPGAMAGQ HVPGCCQGLNPLYNLCDRSGAMGIVLZAVAGAGIVTFTVLT ILVASLPFVQDTKKRSLGTQVFFLLGTGLFCLVFCVAKPKPF STCASRRFLPGVLFALCFSCLAHVPFALNPLARENHGRGHWIF TVALLLTIVELIINTENLLIITVLRSGEGGPGCNSAGNAVSP CATANMDFVVALIYVMLLLGAPLGAWPALOGRYERWRKGVFV LLITATSVAILWVVIWMTYTGNEQINSPTWDDPTLATAIANAW APVLPIYVPEVSQVTKSSPEQSQGDMPYTRGVGYETILKBEKG QSMFVENKAFSMDEPVAARKPVSPYSGYIGQLTSVYQPTENAL

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A-Alanine, C-Cysteine, D-Aspartic Acid, E-Glutamic Acid, F-Phenylalanine, G-Glycine, H-Histidine, I-Isoleucine, K-Lysine, L-Leucine, M-Methionine, N-Asparagine, P-Proline, Q-Glutamine, R-Arginine, S-Serine, T-Threonine, V-Valine, W-Tryptophan, Y-Tyrosine, X-Unknown, *-Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
6567	125	863	MHKVSEGAIDYILPRATANGSVNGSANGSTRABEDMSYACSHQRA ATPPKDKGNSQVFRNPYVWD TKRSNLKATACSTHILR.MSYVFNDSSTNNVPLLCACLDGDFN YSKRILJESGFDPNIRDSRGRTGLHLAAARGNVDIQCLLHKFGAD LLAIDYQGN TALHLCGHVDITQPLVSNGLKIDICNHQGATPLVL AKRRGVNKGIVILLESLEEBQEVKGFNRGTHSKLEIMOTABESGA MESHSILANPNLQQGBVLSSFRITTHQBFVEDLGFNRVLLILFVI ALLSLGIAIYVSGVLPFFVENQPELVH
6568	3	1183	HASRLRLVLDNTHSFSGASANLQGFRTTELPHPTLASTISSPM LGSALYLVNVDHYLEGLVGRCKASLLTQQDYINLVQCTETLEDL KHLQCTDYGNFLANKHTPLTVSKIDTEBRLLCCEBEPNRMHS LEPLSTFLVTWTCSTMINDVILLMNGALQKSKVKELKCKHGLG RFTMESAVNIAETPSDLVAILIETPLAEPFQDCMSENALDELN IELLRNKLKYSYLEAPYFKCKNGDVTAEVCMPILEFEADRRAP IITLNSFOTELS KEDRETLVPTFGKLYPEGLRLLAQAEFQOMK NVADHYGVYKPLFEAVGSGGKTELDVFEREVQMVNLAENROF HYGVFYAVVGLKQBQIRINIVNLAECQSQRHTKINSYIPIL RRGFQRLGHRPTPLLCRNRTAGPSHWKCARAQQLRLPDDPR RMSWLPFLTKSASSAAGSPGLTSLQQQRRLISLRNHSHSI AEIQKDVYKLPFTINNLITINILPPQFPQSKPVISVYDPIR HHMDKQGVYVTSPLAVNNTHMSDLGKIKTQSLLDSEFWKPFVIA PSTAFAPLINSFQMSQATAGQFPPLPYPPQSANRISITLSV ADTVSSSTSTHTAKPAAPSFOVLNHLPIPTVDASIPTSOMG PGYNMDVPDAPFELSLSVSOLTMNQBQEVLLILQEPFLPLQKL QITIDKDDLKVSIEELARKNLLLEPSLEAKRQTVLDKYSLLTM KSTFRKKMQRHESESASALQARKLVAAHABEESDNIARD FLEGKMEIDDFLSFMEKRTICHCKRAKSEKLQAIMMSIAPHA PL
6570	330	1304	AKLEPLATFLREDFLYVILSHWVFGAPRPASDSWKEGLVPSAP PASRKMGSKALPAPILNHPISQLINYSFLQAVNTFPATVDHLQG LYGLSAVQTMHMHNTLGYPIVHEITRSTITEMAAQGLVDARF PPALPFTIHLFHPKOGAIAHVLPAHLKDRPRDFANLAVAAATQ BDPFRMGDSLKSLPOLSPISGLSKLTPRPSRGRLPSKTKIE FICKFCRHPFTSYNLLIERTHTDERPTCDI CHAKFRQGHIL RDHRYIHSKPKPKQSCGKGFQGSRTLVHKTLMHQSSPTAA SSAAKSGBTVIOGT APDMARKLLQKLTDTLTKCKHLFGDPDKNDGCVNVLBNHGL SLFLRGLSEBKMKYCFEVDLNDGDFISKEEMFHLNLSLKKQP SESDPDGELKDLVEITLKKMDHHDGKLSFADYELAVRETELL EARGPCLPDPKSQMRFEAQVFKDNEFNDM
6571	169	656	TPERAQPGALGAGACCCVCGRWNPSRSHEROVYFSAKMSKRN LSCSERHQKLVADENTCKHLVQALNVNSQIRNMQVQNDNRN QRQFLRLQLNQEPFLDMERRAIQABENNRKELQKQSEKILAM BLAKLHHSLSKDKMRQVRENSIIELELEKLLKAAATMKKRAA QLAEKDAIKYBQMKRDASTARTMSEHKRIIKEENAAEDKRNKA KAQYTLDLERGLERQEKKKQAYEQLLKEKLMIDETVRIYED QLEKOKLKKMAMHETISLQKQALAEKKKREMBENRKII EPANMOQREEDPAKQVQENREKRLQALTKLEKREMRERED LSQVRLQYQEQARCYKSLKESBAEKLKVKQEMKQGFEEQNA LKLVLQAAKBEENPRKIMLAKFABDRDIELMNAQQRMKQJE HRRAVEKLISERRQQLACKQRELEBQQLQRRQGFINAITEE RLKLLKEHATNLGLYLPFGVFKKEDIDLGLREFRKVVQQRSKI CEEK
6573	767	275	GGGGGSSQSFRAQDGTTRPATDCMLYLQCPKIMTQGVYDMVK LFLDFRRRLSORPTASLEQRNLIKPRNEQESQREKREIKRRL TRKLSORPTVESLERKILIRFSDYVAVADADQYDRADKFWTR

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6574	204	1159	LTAAKVSRSRGECWRVGRTVCNVLGSPGSGV LESSVPVSVGVFWAGQVSWTGAAGLGDGSDTMAENABKAMTA LARFRQAQLBEGHVKERRPFLASECTELPKASKWRQIIQZISK KVAGIQMAGLGEFRIRDINDEINKLLREKHEVNRILEKOGPDY GVQVPMLDHBGSEVPGNRGYKFGAAGKDPGVRELFEKETLPP PRKTRPALAKAIDPEYIYGLDEDDGVIVPLEQSYEKKLRAELVE KKKAEAREARLARGEKEESEEINLIYAVTDESEDEGGSEK GDDSQQKFIARVFPVPSQRIEALVRKKYELLQYKASETLQKQ SEEARLLGY
6575	117	820	SPALASQSGGITTEKMLPQEQGVLDLPDVEHVEDSTFFPPFP ASPERQDGEGETPDEBSGNAPVPPVPPKRTVNRNPKIDARLI SEROLFALRHVFDKAKFKGKHEARLKNLRHMEHARLFPK LQFEDFIDRVEXLGSKEVQTCLEKIRLDLPHEDFVSNNDVE ARNNRHDTVSTELDPFLTNLSESEMFASELSLITEEQOQRIER NKQLALERRQAKLP
6576	1	1060	PEPQALVGKKGALRLVARLVLTASAPVRRVRLRPVLSMD RETRALADSHFRGLGVDPVGVQAPGRVAVPSEPGAFYADFVR GLPLNMLPCVFSAPFTQGWGRRRNVTPAGRDFDHLLRTYGDV VPLVANCQVGEHNSNPKHETLRDYITTWEXIQAGYSPPRCL YLKDWLCPDVEEDFTLVFSGDWLNEFDALDLDVDRFVY AGPAGSGSPHADIFRPSISVNVFCRKNLLPQDEALER HNLVPDYVTPALCDTHLHPRNLQAGPLETTQAGEANVTVSG WHQVHNLVCCFSCPLGSAFLQEDGSTTSPQLSQPLNNGVAE G
6577	2271	987	SDRHASDFDVIEMLEAPYKKEDEQCKRKKVDYPSMTTSS TNGSGNETSGSSTIGETSNRSDRDRYRRNRSSRSPGRQCRH SRSDRRHSGSRSRDRHREDRVHYRSPPLATGYRHKSKTHF RRKSPVRPVDNLSPREEDARTVFCQLAARIRPDLDFPSAV GKVRDRIISDRNSRSGIAYVEFCEICQVPLAIGLTQGRLLG VPILVQASQAEKNRLAAMNLTQKNGQPNRLYVGLSPHNTED MLRGIPEFPKIDNIVLAKDSDTGRSGYGFITPDSCEARRAL EQLAGFELAGRPMVGVHETERLEGDTITPFDGQDLGSAAGS RFLMLKLABAGAGIQLPSTAAADAAJAAQALQINGAVTLGA IMPRALTALSPALASQCLQSLPLTPQV
6578	377	1489	PESSATWDAFLKATILKNAITGASDPSAAREANGKPKFLPRA LQIALVSVLWVTSISMVFNKLYLDLDSRLDTPFVTFQCL VTTLCKGLSALAACCPGAVDPSPSLDLRVARSVLPSLVVIG MITFNNLCLKYGVAFYVNGRSLTTFVNLVSLYLLKQTSFYA LLTCGILIGGFWLGVDBGAEGLTSLVTFVGLASLCVSLNAI YTTKVLPAVDGSIWRLTFPNNVACILFLPLLLGLGLQALRDP AQLGSAHFWMGMMTLGLPGFAIGVITGLQIKFTSPLTRVSGTA KACQTVLAVLYEETKSFNLNWTNNMVLGSGSAYTVNRGEMX KTPZEPSPKDSEKSAAGV
6579	2	711	RPRVVPFELRELAAAPRNSHRTAPGVVFTSSSVNSAYT IYMKDKYRNEDIKHWGPEDIWFHVLKLSAHVYLRHKGNI EDIPKEVLMDCARLVKANSIQCKMNNVNVYTPWSNLKKTADM DVQIGFHRGDKVIVTVEKRNELLNREKTKVERFPDLAAEK ECRRERENKKAQIQENKJREKEEMKKKREDELRSYSLSMKV ENMSNGDQNDSEFW
6580	62	1571	LVALKNNKPKGTNIPAPQSPVGEAGVSGVNMKIVLGRAPVLP RDPQEGVPLMVKEEKEKGYLPSLEMTRORFQPGVHTDTPG PREALSQLRVLCCWLRPEIHTKKQILELLVLQPLFVLQPEQ ANVQRHCPSARARVTLDELRELDREPHQVSTPPNEQKPUWK KISSGSTAKSPSSMQPQLFESHKYSAGPLIYQESGEQEPFA QDPRKVRDCRLSTQHESEADEQKSEAEGLKGDIIISVILANKPE ASLERQCVCNLANEKGTKPLQENAGSKKGRSEVPTKTPGERRYI

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			CAEGCAFSSNSLLTKHRRTHGKEQPVYTCCKGKAFSHSSNSLTL HYRTHLVDPRPYCKGKAFQSSDLKLKHRRMHTREAPYQCKDQ KAFSGKGS LIRHRYLTHGKPPYQCNEHCQSGFQAGLSGSHQLH TQEPFKYCKGCKAHPHSSSSFNKHRIKTHGKPPYCHGCKGTFC SSNLSLKHQVITQSG
6581	228	476	RVLKMLSTWASNNITSLAQAKVGVQLKMEANLDRIKVSKA ADLADMACEAHAEPLDLTVPSANPSPAFKFCFLL
6582	1428	718	CFTTKTKCS PUVSYVTFSLPAVTKKMSKLLNENGGQVHTSSSF HQPIIPWTLVWYFRLDLPNNLKGILLISEHCNEGVQLP.SLSL QDSKLYVLIQLADNNINLQSPREPIYVSWRNPSSEKSLLSSE QQETSLVLTITROS IQHINVLKPIINLLSQMKPCKMRQBSLYRE ILFSLVLSLGRNDIEAFNEFYGIAYNSLSSEILRLQKLDAP PSASVENCRCFCGAPLI
6583	487	41	LFRSMTSGRLRWCTWRPATLMSASLRGTSVSEPSRSISLP LSMMISPLPNTGRLS PTALFRSPDEASTCPRELMRCRAPL RSPPLGLRLVLHPSPIHVITINSKEVLQLOVQRSRSSTGPAC SQAGSGAVQGGNMCI F
6584	189	1750	PLPFAALFSSGQNTVYTVVRVPMNTKRYINAFNAADKNFAT NQCARLEHDSLNKKI QREPMPSGASGEPNKLREARRKKYIG IVLKEPSEQFWLLRVNKGSGRKFAGIKGGVSTWTSYITFO CFDGAFAEFLVPMPTPLAHNHTITAEASBHEMTRNVLNH FSVIMQRELDDQDDEESKEKKGKASLALHTLSDLEMS SDASDASGEGGGRVTKAKKAPLAKGGKIKKKIKKS DDEAFDS DDGD FEGQEVTVYMSDGSSSSQEESPSSKAKAPQEGEGVDEQS DSSESSEEEKPPEELKRREREKKAAPPQEKRRRDSRESDES RSDIDS EASAPFAKAKKTKPKRREKTSCCSRGNRDRPTGPAS GGSTSTLFAAASLKGGRKVSEMPAAGRLDLDTPQSLSGSTK PQPSGKTKTPNSGDVQVQEDAVRRLTREPMTTDLKKKPTGKT TGLSSEQTVNLQALIKELNPEMLINDKGFSLKE
6585	3	1678	QPLRNSRLDDFGGDPRAEASCVLHNSPHAKASLRFASDQMC HWEKRAAQKADVLITGAGNPVQDKLNVITVGGPSPLLVQDVVF TERMAHFRDRIPERVVAHGAGAGFYFVTHDITKYSKAKVFE HIGKTKPIAIVRSTVAGSGSALATVPDPRGFAVFTYEDGNNLD VQNTPTPIFERDPLFPFSFHSQERNPGHLLDPMWVDNWSLR PSLKHVSFLFGEFQVHGRNPNYGHSTFELNVAHSEAVIKCVS PHYKTDQKLNLSVEDAARLSQEDPDTGLNLAITLAKVYPS TFYIQVMIENCAETFFPNPDLTKWPHKCNLPVLVGLVLRN NPNVFAEVQIAFDPSNPNPGIKASDKMLGCRIFAYPDTTHRR LGNPNYHLPVNCPPYRARVANYQRDGMCMCNDQSGAPYPPRS GQPEQQPSALEHSIQYSQGVRRFTTANDNDVTVQVAFVNVINE RQRRLRCENLAGHLKKAQIFIQKQVAKNTFTEVHPHYDGHILQALL DNEAKPKKNAIITLAFRCGSHLAAREKANL
6586	32	804	PLPQPEASTSTIMPVSGTAPNKKRKSLLMLTLGGGCESSGL NLGKISVPRDVMLEISLILNTRGSKCMKLQMRVEXFYIENHP DLSGSMDHFOKFLPTVGGQIQGTAGQGSYSKNSNGRGSQAGS GSGAQGVGSDQQHILAGSGSGAGGTGGPAGQAGRGGAAGTAGVGS TSGSGQAGGEGKKHITVFKYIYSIPWRPAGVDPQXKRLGDLILA YVGNKARLPYKYSFNKTMVYQCYEAKKMTFQMPK
6587	75	1117	RRVPSLQKHPBCMDQSHIRTEPYGILGAVSGVPSGKNNRPAITY RVEKHKICENYFPMEDQVTHKHFVYCHVAGQGVGASQF PQGYCFPSBMAKMLSSVQVHFKVYIGLGVGAGVLAKEA LIPFLVRLVLIANDPNKNGKIDMAAKLSLSLTSLDTPSL LFSQRELVNNITLVQSVYRQGTNNVQANQLQFNMMYNSRRDL INRQPTVYNAKTLRCPVNLVGDNAEDGVNCKSLDPTTIDT FLKMAQSGSLPQVTPGKLTFAFKFYIQGVGVPMSAMTILARS RTLASLTSASVDSGRPQACTHSESSEGLQGVNHTMEVSC

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6588	137	501	IGLQAQLLELRNNYFSLDELEKKGVELTSLRQKVAYLDEKFSK AQKALS KSKKQAEVVLSENEMLOAKLHSCQEDFRLQNLMA EFSKLCSQMEQLQENQQLKEGAAGVQAQAGP
6589	2	1405	EPNGSAMATFSEQEFFQQLQSCLLPTAQGLDQITWLLATCLA CRLLNRLGLPSYLKHAHVAGGPFSLYHFFQLKMMVVVLLSLLC LYLVFLCRHSSHRGVFLSVTLIYLLMGEGHGVDTVTRKQKGA QMI VAMKAVSLGFDLDRGVRGTVPSEVTFMGYLVFTVGTIVGPK ISFSTYLAQVQRPFLSCRMLOKVARSLALALLVLSTCVGPYL FPYFIPMAGPRLLENKKKARSTVEMLEAYEAVSFHSNYPV GFLSEATLTLAQGPPEKSKHLESLTVSLANVLEPRSSVEV STWNLPMSTWLANVYFMALRLQTFSAVLTYYAGALLHGFTH LNAVLLSAPTYVYHVLRLRLARTLSACVLSKRCPPDCSHOHR LGLGVRALNLLFGALAITPLAYLGLSLFQVDDOTTERQGYQWY TVKWSLSWASHVTFGCHIFTELG
6590	2177	656	VRAYEHVLSLLENVTFPMFCHRDYFQCLRGAEPTFRNSKLN GSLSDDFRNTQKRGESFGISRGSKI GVFKSTIMEGAMLENY GVAGGEDDFIEEGIVVMEDDSPVAVSTPTPTNLAAMKISIPY VDFFEDPSSSRKCKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFVLESKLTEFHGAFFDAQLPSKRIIGPNYEFKSKREE FOYTLQKLQHPLENSQLLADFLSPNGEQFQDLKILPDVNLG KIKSVFQKLNKKEKCHLEFFPNTINSCESPKPKPSRPBLTTL SPTSNNKLLNDFLQKRAKRALENTKQNTYFMETVYBGVY DYIMVYGVVQVQVDFWHLHLNSTRILFNTLEWYTYLQCL EQLFQHRRLVSLITLLRDALFCENTSPSLQDKQKGAQTPEEM MNYIPDLNKKICIGETKYESIRLLFDGLQVPLNKLTYVLLDI VIOELFPELNKVKQKEVTSVTSW
6591	2177	656	VRAYEHVLSLLENVTFPMFCHRDYFQCLRGAEPTFRNSKLN GSLSDDFRNTQKRGESFGISRGSKI GVFKSTIMEGAMLENY GVAGGEDDFIEEGIVVMEDDSPVAVSTPTPTNLAAMKISIPY VDFFEDPSSSRKCKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFVLESKLTEFHGAFFDAQLPSKRIIGPNYEFKSKREE FOYTLQKLQHPLENSQLLADFLSPNGEQFQDLKILPDVNLG KIKSVFQKLNKKEKCHLEFFPNTINSCESPKPKPSRPBLTTL SPTSNNKLLNDFLQKRAKRALENTKQNTYFMETVYBGVY DYIMVYGVVQVQVDFWHLHLNSTRILFNTLEWYTYLQCL EQLFQHRRLVSLITLLRDALFCENTSPSLQDKQKGAQTPEEM MNYIPDLNKKICIGETKYESIRLLFDGLQVPLNKLTYVLLDI VIOELFPELNKVKQKEVTSVTSW
6592	3	1861	APFELGSTISGSMIDANLKLLEBARORLQVIAERFATAYKSG DLPOVERFFKIFPLGLHSEGLRKFSYSLCQVAKASAKENLLAV LGTDSMDRAAVIFADTLLEFGIARIVETHOPIVETTYGGR LYTLIKYLOVEDRQVEKVVDKFIQRDYHQCFRHWQNNLMRIS TTEKIEPRELDPIILTEVTLMNARS ELYLRFKKRISSEDFEVDGS MSESVKQEHQKCLDKLLNCLLSCVWELIGLYVTMEYFMR TVNKVALDITYEKGLTSSHWVDVYIVKKGIGRAISSSSIDCL CMINLNTATLLESDFDVLCKNKLWGPATTPQDJRGVTSAYN IMISSLOQKQFDYKIGSTDEAKGSFLVTLNLEVEYCSNLSLK KTLSDCTKLSPQGTGGRQAKFDSCLDLAAVSNKFDLLQJ GLTELNSTALPQVOPWINSFFSVSHNIEEENFNDYSDNPDVQ QFIILNEQQMAEFKASLSPIVYDSLTGLMTSLVALEKVLKS TNRLLGLQDFKELRSLIAYLTVTVTTRKPARLSQMATILN LERVTEILDYWGFSGLPTWRLTPAEVRQVALRIDFSREDIKR LRL
6593	3	1837	RAPSAGSRKRLALQKRGVGLGGLGYCECCRRRQELLVLLML RGEGGGGGRGRGDKRRRRQARRRPEPAEAGGKGDVLSVL RQNYIQKKEIVVRGDSVIFGEPSPFNKVTYVYVWGTEGQGR

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			EYTTLDISILFLNNVHLSHPVYVRRRAAENTPTVVRPRDKLLG YLNGEASTASIDRSAPLEIGLQRTQVKRAADEVLARAKPRI RDECVRLDKERLAARLEHKGIVQTEQIRLSLEAMSVKIAA IKAKIMAKKASTIKTDLDDITALKQRSFVDAEVDVTRDVSRE RVWRTTTILQSTGKNFSQNI FALQSVKAREGRAPEDQAPN AAPVDPTLRTKQIPAAVYRQDQRFQKEETEGFKIDMTGYTH GHTLKSVTGASARKTQTPAAQPVTRFVSGARPPNQKQSGRTT IILPAATTSILTMARLDLDLQKLVFSDKRRKQSGORENLT IQRRKQDQWQGTALISVTVYRVDQKLMFQMDRVAVFVQ GPANQFKGMPHLLPDGSPVETPAKIKAFHLYDEVLQNVQW DVTVLELSYHKRLRDPVPTVWTLDRYVYKHSILRZ
5554	1	1096	EFPGRRFEGSGASPLCATQCPALLUAPFLDAMTRSPKGNFWSA DILSTIGYDNIILHLMNGRKNCKEFDPLKERRAJIERYQKDLL NLSRKKPCQGEINTLKRALVFFQQVNVQAQCHQLAQSGRRE ARKMEEFREKQKLQKKTRELMDAIHQKSLQFKTKMDAKINYE QKCRDKDEADQAVSRANLVNPKQKELFVKLATSKTAVESDK ATMLHIGTLDKVRSEGSGEHIKACAFQACRCRINFFRNALW HVNGLSQQCVTSDEMYEQVKSLEMCISIQRTDIFVFNQRKTGQI PPAPINYEYFSSQKNVAPGKATGPNLARGPLPIKSSPDDP NYSLVDSLSLYQ
6595	57	781	PLQVSDSDIQQDGLSLAGKRRKRNGLPKESVKILEDNWLYLH RYNAPSEQKLSLQQTNLVSLQXWTFHARSLPLDMLRND GKDPNQFTISERGGKASDVALPGSSPSVLAVSPAPTRVLSLS VCSMPLHSGGQKPAAPPRGLESPPKPLVTPGSTITLLTRAZA GSTPGGLFNTFPPTPFPQDKEDFSFQLLVEVALQRAAMKLOK QQDPSLPLHPTPIPLVSENPO
6596	2	1026	PELPRVRYHGRRIQQRSRGHNAGDAGSDQRQNEETEMAAIY GEENCVIDDCAKIFCIRISDDIDDPKMTCLQVMLPNEYPTAP PIYQLNAPWLGQERADLSNLSLEYIQNGIESILYLMVKEIRD VLIQSQMTFPGPDVKKKTEEDVCEDDLILACQPESSVKALD FDISETRTEVEBELPPIDHGIPTDRRSTFOAHLAPVVCPOV RMVLSKLYENKKIASATNIIYAIRIYCEBKQTFLQDCREDGETA AGGRLLHLMELLVNKNVNVVSRWYGIILGDPFRKHNNCARN ILVKNYTNPSRESSKALGKNKVRKQKRIEH
6597	2	1026	PELPRVRYHGRRIQQRSRGHNAGDAGSDQRQNEETEMAAIY GEENCVIDDCAKIFCIRISDDIDDPKMTCLQVMLPNEYPTAP PIYQLNAPWLGQERADLSNLSLEYIQNGIESILYLMVKEIRD VLIQSQMTFPGPDVKKKTEEDVCEDDLILACQPESSVKALD FDISETRTEVEBELPPIDHGIPTDRRSTFOAHLAPVVCPOV RMVLSKLYENKKIASATNIIYAIRIYCEBKQTFLQDCREDGETA AGGRLLHLMELLVNKNVNVVSRWYGIILGDPFRKHNNCARN ILVKNYTNPSRESSKALGKNKVRKQKRIEH
6598	1099	419	PRVRWATTMAMSEFWPQYRFFPFTTQPNVDTRQKLAAMCSL VLGFCRLHQQSMTVMAQSRPLFNNVILQRKLPVSSIQVILE LRKKNLFWLDEKSSFLIMWRPPEWGLIYQWVSQSQNNVS FTYILNWRBTDEBTHGLDEATLLRALQALQGHKABITVS DQKPROVLGATCLPLLLTSHLSRAFRKQVCPFKTGSVTPPD SKGLQS
6599	164	1593	KMALTLTFKYIDENQRYIKKALAKVAGQSVAMFKKGRTER MMEVAAADVKLGGSVELVDIGKLPDGSIPLOPILGLGLGS DPQKTVCIYGHLDVQPALEDGNDSEPTTVERDQKLGHRGST DDKGPVAGINALEAYQKIGQBI PVNVRKILSGMREGSGEGLDE LIPARKDITFKQVDVTVCSIDNYLKKKEPCITYGLRGICYFFIE VRCNKLHSGVYGGSGVHEANTDILLMSGLVDRKGNILIPGIN RAVAAVTEEHKLYDDIDFIEEFKADVGAQILLHSHKIDILMH RWRYPSLSLHIGIRGAFSGSGAKTVPRKRVKFSIRLVFNMTPE

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5600	2	934	VVGQVTSYLTKKFAELSPNEFTYVYMGHGQKPVUSDHSHPHYL AGRRAMKTVFGVEPDLTREGGISPVTLTFOEATGKNVNLPPVGS ADGGHSGNEKLNRYNIETGKMLAAYLYEVSVQLKD PGRI.FRVAAHESAGLEQLLELLPETERIRRAETCQLVLRAD AALSALCDLLASAADPQIRQFAVLTTRKRLNRRRLAAEQRES LKSILITLQRETRHCVSLSLAQLSATIFRKEGLEAMPOLLQLL QISTISPIHSPPRRMGLLLSVVTSRPEAPQPHRELLRLNLET LGEVTSPPGLLFTSLRLTITMAPYLSITSDVPFLARMLVPKLIMAMQ TILPIDEAKACEALAEALDELLESEVPVITPYLSEVITFCLEVAR NVALGNATIRILCCLTFLVNVKSKALLNRELATLAHPHPPHC GC PRAAARAPPVAVCRREDEAATKRGAGENTLHGLAQRYPENHIE KITTWQDPRIKAMQPLAHNHLHVAUSSTPPVSRMAVSQPNHVM NHQHQQQMAPSTLSQNNRPTQNPAGLNSMNPALTTQQQQQKL RLQRIQMERIRIRMRQBELMRQALCRQLPMEASTLAPVQAAV NPTPTWPDMSITNNSDDPFLANGGPHYSRQSTDSGLGGLGCVSV PTTFDEFGLNVDEMTGERAGQTNNINPQOTRFPDFDLCLPGT NVDLGTLESEDIPLFNDVSEALNKSBNPLFTWL LDDPFLPFGFLVLAQSPKAGKSPHMTSMTQSLREVIKAMTKARNE ERVLGKITLVSAAQPGVICBMKVESEHNTAIGTLHGGLATLVD NISTMALLCTENGAPGVSDMNITTYMSPAKGEDVITIAHVLQ GKTLAPTSVDLTNKAQTGKLLAQCRHTKHLGK PFGPSSLARETGLGHPHLELASSRGLNDELQGLAFIVLML SOMGATOTLRTSLDPSLEYKGFVFRKREQLALNLAQLNDI HQVYKLLDVMKGLPKVLEDSRTVITAAOVLPDGPFPDQKLDK AFSHVVENTAFFGGVVLRFPRIVHYFFDNNSNNWLLRWGISFC NQTGVFNQGHSPILSLM TSTAQRQGGGRMSFRGGGRGGFRNGGGGGJNNGGSSNFRGGG GGGGGNGFRGGGRGGFRGGGRGGFNKGQDQGPPEPVVLGFEFL HPCEDDIVCKTITDENKVPYFNAPVYLENKQIKGVDEIFGQLR DFYFSVKLSENMKASSFKLQKFIIDPYKLLPLQRFLPRPPGPK GPFEGGRGGGRGGGRGGGRGGGGGFRGGRGGGGGGFRGGGR GGFKRGKH SSESRHARAGVGLVQCHCLISAPDFDRDLDDVLEKAKKANV ALVAVAHSGEFKEKNGLSERYRNVFVLPCLDVPVPGQLPFPDQR SVTLKDLDALEITENYKDRLLATQVGLDPSRPAFTGSEKEE QRQVLTROICLAKRLNLPNVHSSRAAGRTTNILQOGAKKVLML HAFDGRPSVAMEGVGRAGYFFSIDPHHSQKQKLVKQLPLTISC LETDSPALGPEKQVRNEPWNISISARYIAQVKSISVEVEIVTT QNALKLFPKLRHLQK FVRIRPRAEVANLSAHSASPTQDAVLRKRSCLLEDIVYRLNGLS KSLGLIBGYGGRGGKGLPATLSPAEESKAGPHEKYGNSYLS KISLDRSIDPYRPTCKELKYSKOLEQISIIPIFNVEALSIVRL SVHSANVHTPTHLKLSIILVDDNSDEELKVPLESEYHKRYPLG VKVVRNOKREGLIRAREGKVKATQCVGTQVDAHVFTAGWAE VLSRIQNRKRVILPSIDNIKQDNFVORYENSHAGYSWELMCM YISPPKDWGDPSPILRTFAMIGCSFVNNRFFPGIIGLDDG NDVYGGENTLGIKVMKCGSEVLGCSVVAHIEKKEFNGSI GFYTRKALRVAVGWMDDYKHYTIANHPLNPNFIDQVTSR RALRKSLLCKNPWYLDIVYPMRRYNTVAYGELRNKADVC LDQGPLNHTIALLYPCHWGOLARYTKEGPHLGLAGITLPL DTRCLVDNSKSLPQLLDCDEVSSLYERNFICNGAINKGTG RCLIEVNRGLAGIDLILRSCTGQRWTKNSIK VPCAGLKKKEARSLASAPRLLINTXLAGSCLAFSPPIQSRQTT GISFGRRGGAGPGVPTRTQVPAAMGAMGTFSLSLQTKQRPKSD KISLELMTMCHRPGLGOLAEQNTFKRELQVLYGRKNNCP
5601	529	1420	
5602	127	617	
5603	79	660	
5604	3	688	
5605	7	848	
5606	2	1682	
5607	137	986	

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5608	224	1140	SGVNVNEDTFKQIYAQFFPHGDASTYAHYLFNAPDTTGTGSKVFE DFVTALSILLRGTVHKKLWTFNLNDINKDGYINQSEMMDIVKA IYDMMGKYTVPLKEDTPRQHVDFPFQMDKNKDGIVTLDEFLE SCQEDDNNIMRS/QLFQNVN
5609	1	443	RPCFSSPTGLCFRLSYPMILLQHAVLPPPKQFSFSPFMSVATRS TGTTLQLPQPKPQGEASLPLAGEEELSCKGQDCALSELCKPLY CKLGNVTLNSAQOQCAHYQKQKHKKLNNYAA NSCPPPARMSN VVEPAATFVVPVPMQSGFKGGRVILATENDYCKLCDASFSSP AVQAHHYQCNIAKRLLELAAQSSFSFSESLQGRARKKBNF KMPFHRNMVTVQNSGPIVYFERSQRI PRELLAWCTPSGQFC SMCNVGAEGEMFPROHLESKQKHSKVESRYRYMENENLGYV
5610	319	881	FLKLCRRFRVAGGLAGAGLRESRVFAPFQRLSKATLLSWKAVT PAAPRGNFQLS PAEPGRPLASPVRAAPRACPAAMSEINLTKTIS PATNQAAQSEKKGKGNVKKABEEEEIDIDLTPETEKKALAIK GKFRFPQKROKDPSS
5611	978	212	GRKSLCNLHIFIRFPFLTYPDMYMNNTAKKCG-RFQPPAIILI YESEIKGKIRQIMPVRNFSKPSDCTRAAEQLKNNPRHSY.BQ VSLRQLKELFSPLRGYLSGQSLAETNEIQIRETTIDPDSBNDKL DDKELAKRKSIMDELFSKNQKKDDPNFVYDIEVEFPQDQLOQS CGWDTSEADF
5612	1724	992	PGCSGAGSRVWNLPAKRHLAMGSTESSSEGRVSVFVGDESERVRV LQCVLSENVVRMKFSSPPAPFTSTTQLQDGLARPHKST LPSGSGSQGQPSGMKEGVKYQESHQAIOKQLQVAKSEBAA TKHSKASLPTGSGSISHBQKSVRLARELESBAELRRDTFYK EQLERIBRKNAEMYLKLSBQFHEAASKMESTIKPRVFEVCSGL QAQILHCYRDRPHRVLLCSDLVIAQRCVSAAEKG
5613	130	748	VSTHASALSKTGGQFOROPRAASGGAGTITGGGSGGAGSGIM STEARVDDSPSTSGSSDGDQRESVQGPERSQVQKKKKGKIK SSKTAALKSTSAKRIQKRLAEITLDPNPGSAGPKGNINYEWS TILGPPGVSVRGVFFLDITFSDPYFPKPKVFTFRTIYHCNIN SQGVICLDILKDNWSPALITSKVLSICSLTDCNPADPLVGS IATQYMNRAEHDRMAROWTKRYAT
5614	3	1191	BLBLSNNPQESNDYRVAVFGAGVGKSSVLRFVKGTFRBSYI FVTEVTRGVCSCKSICITLQITDTTGSHPFPMQRLSISKGA FILVYSITSRQSLERKLYSQICSLKGDVSEIPILVNGKDE SPRSVQSSERKALARTWKCAPMETSALNNVVKELPQBLNLE KRTVSLQIDGKSKQKKKSKLKGKCVIM
5615	832	35	SSAABAMRVLRRCWGPPLAHGARGKFPSPQNALAKLQWEDCR DSRVREKPPWRVLFPGTDQFARBARALHAARENKEEDILKLE VTMPSPSPKGLPVKYAVQSOLPVYEWDPVGSSEYDGVVASF GRLENEALILKFPYGLINVHPSCLPRNRGPAPVHTLVGSDTVT GVTIMOIRPKRFDVGPILKQETVPPVKSTAXELAVLSRLGAN MLISVLKMLPELSNGRQOPNEGATYAPKISAGTSCIKWESQTS BOIFRLYRAIGNIIPLOTIMNANTIKLLDLVSNSSVADPKIT QOALIPGVSIVYHQSQILLVYQKQGWIGVSWLKKSLIATDFY NGLYHPYQKNSQAQPSQCRFQTLKLPITKKKQKVTAMQQCIE
5616	347	1886	GNKGVKASNECPDVRAPLGRHSLRQTDARKVFCILITGHE LCRCLPELVYITNGKLYKQRLVRSAPADPAFPELIVPKNDE QLCPKSLFLRHINKCEPHVLRHTQGRYQALCKYECQGVQVY VPACLWHRRHRHEDQMGDGPAPREAPWEPSTSSDGGGAASDSM TDLYPPELFTKDLGSTEDGDTGDDFTDKEDKAKPREKATD EGRRRETVYRGLVQKRGKQGLSKKKPKSHHKPKSPSCQKGS G
5616	347	1886	LLPPOCGARPLSSPHASENLLFLWNCILCAFPHPSPQLQYF WNPLLLVI TOIPAPRHILNRPSPFSRQGLDSFSGSLSTPISCRS

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			<p>DAWKMAWPWPGRGLVPAVLWGLSLPNIIPGPTWLPQSPPPPOSSP PPQPHICHTCRGLVDSFNKGLERTIRDNFGGNTAWEEENLSKY KDSERLIVEVLBGVCSKDSFCHRLLESEELVESWVPHKQQA PDLFQMLCSLSLKLCCPAGTTPGSPCLPCPGOTERPCGGYGCQCG EGTRGSGHGDCCQAGYGGHAGCGQGLGYFEARNASHLVCSACF GPCARCSGPFSESNCLQCKKQWALHHLKCVDIQCGTPEGANOGAD QFCNTBSSVBCRDCAKACIAGWAGPGRCKKCSFGYQGVSEEC LDVDECEVCPGKNGKQCHNTKGYRICKCBSTYQWBOICVCEQ IPESAGFFPSWTEDELVLVQLQMFPGIICALATLAAGDGLVFTA IFIGAVAAMTYVLYLSESRDRLVLEGFIKGR</p>
6617	118	673	<p>VWMAWQVSLLELDRLQCPICIEVFKESLMQCGHSYCKGCLVS LSYHLDTKVRCPMCQWAVDGGSSLPNVSLAWIEALRLPDDPEP KYCVHHRNPLSLFCEKQDLICGLGSHQHHPVPTIPSTVCS RMKEELAAVLSFLKQBQKKVDEBLIAKLINRTRIDGSAVSLCPC LGPATPTFL</p>
6618	548	136	<p>DGKVARRAAPSAPQNDIYPLVSPAPRTAESPSWVQLQNTQCR NVPRMTSERSRIPCLSAASAAAGTGKQCGGRAMATLDRKVSPSE AFLGKFWSSWIDAALHCSDNVDLEAGKEGGKSEVMRLNKEA WKYGT</p>
6619	246	842	<p>PASSEVLTAAWPFLLLNCAIVAYSQMGIGKNGDLPRFPPLRNEFR TFORMTTSSVSGKQMLVIMGRKTWFSIPKGRFLKDRIMLVLS RELKEPQGNHFALESLLDIALKLTRELANVEMWIVQGVSSV YKSAHRHLGHLKLPVTRIMQDFESDITFSEIDLEKYLLPEYFG ILSDVQBQKHIXKFEVCEKDD</p>
6620	3	1879	<p>NSRVDDFVARMAAENASQESALGAYSVDYMSITSPFRLPE DEPAPAAPLRGRKDEDAFLGDPTDPSFLKSARLQRLPSSSSSE NGSQDGSPLRETRKDPFSAAAECSCRDGLVITVITACLFATG VTVALVMQIYFGDPOIFQGGAVTDAARCTSLGIVELSKGSSV DAVAALALCLGIVAPHSSGIGGGGVMLVHDIRNRSHLIDRES APGALRRETRQSRWETKGLLVGVPGVMVGLHEAHLQYGRLPWS QVLAFAAAVAQDGFNVTHDLARALAEQLPMMSEPRFETPLPDSG RPPLPGSLLHREDLAEVLVDLGTSGPAFVAGQNLTEWVBAEQ IAGGVITDEEDFNTYSALVERKPGVGVYGHVLSVPPPPHTSPALI SALNILEDFNLTISIVSREQALHVVASTLEKIALALASRLGDPVYD STTESMDMLSKYEAALTRGHINDSCAARPLLPVYELGLAPT AAQVLYINGPDPFVAMVSSKQPGSGLTITPSILLNSQWLDPS WPNRTANHSAPSLNSVQHGKPLVSLVLTWTVFABGLCOTYLA LGANGAARGLSGLQYVRTPMLAFPSREPSCOLDCRCLSYLMLV SIPHAANNNG</p>
6621	1	662	<p>VQGITSYQORLQALEKEKSRDAARSRKGNFEPYELAKLPLP AAITSQQLKASIIIRLTISYLMKRDFAHQDPPWNLRMGGPPPT SVKVIQAORRRSPSALAEVFEHLGSHILQSLDGYVFLANCBG KFLYISETVSIYGLSQVELTGSSVPDYVHPGDHVEAGLGMK LPICRGLISQGTAEQGASSASSSQSETPEPVVCFPPASQQLF</p>
6622	2	319	<p>GRASGQGEETAGGDERARMAEMMKRSEFORSLEIKVSMGN AEVGKSCIIKRYCEKRFVSKYLATIGIDYGVTKVHVRDRIKVN IFDMAGHPPFYVRKRF</p>
6623	1886	189	<p>KALFEKVKKFRHVBEGDILYAMVVRQZVLKVIKFLIIITAYNSA LVSKVQPTVDCNVDIQDITGYENFSCNTHMAHLFSKLSFCYLCF VSILGLCLITLWLFYSLRBYSPVVRQSEISDIDVDVNDP AMFLMIDQIDPLSRVAVFVLSVSRKQALANENKTPDKL RQKIQNHRRLRLPLMLSGLPDTVFEITELQSLKLEIKVMN IPATIAQLDNLQELSLHQCSVKIHSNALSFLKENLKVLSVKPDD MRELPPMWYGLRNLRELYLVGSLSDHDSRNVLTESRLDKSLKI LSIKSNVSKIPQAVVDVSSHQKQKCIHDGDTKVLMLNNLKMKN LTELVLVCHDLERIPHAVFVLSLSLQZLEKENNKSTERTVSFO</p>

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			HLRKLTVLKLWHNSITYIPENIKKLISLERLSFSHNKIEVLPSH LFLCNKIRYLDLSYNDIRFIPPEIGVLOSLOVPSITCNKVESLP DELYFCCKLKLTKIGKNSLVLSFKIGNLALFLSYLDGKGNHFEI LPPELGDCRALKRAGLVVEDALFETLPSDVRQMKTE
6624	218	1786	GSRRGGSSRTPAVSTHVAPKRSVLRPPFASGALRLSLVKALGGC RGRPSGLAHLISQETSHWRARSGRACLDGPPGELLISFIMKCTA RBNLRTVTTLPMAKALPAMVYPMATLLEKLEIKVYDFDGBWFLA KQGRKRAITNDMWSILDIANKLASQVYPTASNWEVWVVELE RSASNAESCLMEHGPASLLPSIGQNLGAHWORYRPPCFVQSW YDEKDFSPYPIEHCNFPYCFRCSGPVCTHYTVQVNAOSNRIGC AINLCHNMNIWQIWPKAVLYVCHYSPKONWHPAHYKHGRPCS ACPPSFGGCRNLCYKBSDRYPPREESTNIEERQSQSHVD HVRTSRDSSRNEVISAQOMSQIVSCEVRLRDQCKGTCKRYEC PAGCLDSKAKVIGSVHYEQSSICRAALHYGIIDNDGGWVDITR QGRKHVFIKSNRNGIQTIQYQSANSTVSKVTQVQVTCETTIVE QLCPFHFKASHCPRVYCPKRLYASKETLCSCHNNLSLF
6625	1124	543	PGPRGGGSLSTKALGSRSGHGPSPSGGTGGVPTALRFP GPLVPSSTDNLKNIHLEPKLALRPHRGLLEKVLGDEICCW SPYQGRKLAEVCCITSIVYATEKKQTVBEPARI FBSLTANTLI YETPRGPPALLATGAGAGAGAGGDEBENRHRVERHVR HTTDERPHQQIVPFD
6626	3	1458	SAVEFVYTRDFPHLLIGISVEFCSLASDAMESITACILHALQAL LDVWPNRSKIGSDQDSGIELLMVLHVVILTRSPSISQLASLEV RQICAAQEHVKKRRSAEVDGAAKEETLPEPGEKDTGGVLP GKSLVFATLELCVCILVROLPELMPKLTGSPGVKATKQILLED GSRVLSAALVILSELPAVCSPEBSISILPTILYLTIGVLRATAV KLPGQLSSTVAASLQALKGILSSPWAAEKSRTAWTDLRSAL TTILDNDPVDTHQELDEVSLLTATVFLSTSPVETTICPLQ KRCDKFATLEIKDPVQVITYQLLHSIFQYPMNPAVSYPYIS LASCIMEKLOEIDKRKPENTABLEITOBGKIVLELTAVABEHR RQIVACILPLILISFLDENSLSGATSIMNHLHDFALQNLMIQIG FQSVSVFKSLVASSPALKARLAAIKGNQESVYKLPITSKYTKS PGMSSQLCTSL
6627	1	697	GIPHLSSHWKCTGCAVATIDGHAPEPFCGPGVPLTGTGMVLL GDTGVKTCPLIQPKDQAPLSTGTIATVGDTRNKVTVTCQVY KLIQWDTAGQPRFSVTHAYRDQAALLLYDINKSFENIRA MLTEIHEYAQRDVVMILGNKAINSSSERVISEDGETLAEYGV PFLETSAKTGMNVEFLAFLIAKELKYRAGHQADEPFGQIRADIVE SQKKRSSCSFSM
6628	1	1861	QCATFGGGGGGGGGGGGGGGGGGGGGGAGGSEKKNRSPAGSXYAN KEFGDLSLEILQIIKESQGHGRLHGDPCRYRGVCSRRQRRLR KTINFMGNHFKPTKKVTEBLLTDRIYLLVMDASRAWYAM QLQEAQNTPRKRPHLLSLRLKAVKHAELERLCEENRVDATK LEAQYATYLSGLRFEHQENKARIEAFNCKCTIYEKIASAPTR EQAVLYNQVRREIISPNTRYCAYIGDQSAINKLMQRLRSOGTE GLLAERLALITOTRAKQAATMSVEWAGRTVPVKIDKVRIFLL GLADNLAIVQASSETIKELPESNLSCRDIAQVVEELKPDQ KQRYILBGPVKNVNGVYHSHVITVLELATIKRNMAGKLQ RALLQCPEDDSKSPRQDLIRIYDIILQNVLLQLGLEED KAPKKEIGLKTAVKAYKCFPTAGSVYVKKWSBALVYDRVLEK YANVMSDAGAFKMSLKDLPDVOELITQVSKSCSLQAAILDA NDHQITETSSSQVKNKPLVERFETFCPLDESLATQANLVHFFP GQCPICKPLPFDLALNHVAFPLEDKLEQTKTSGLTGYIKGIF GPRS
6629	5653	4549	GATPLGSGGRTGQMDAATLITDILRFAEPDFPETSESPVWILG RKYSIFTEKDEILSDVASRLMFTYRKNFPAIOGTGPTSDTGWC

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		423	MLEGQGMIFAQALVCRHLGRDNRWTKRQKQPDSTFVSLNATDR KDSYYSIHQIAQMGVGEKSGIQMGVYNTVAQVLKLVAFVDIMS SLAVHIAWNTVVMKIRKLKNTSVP CAGATAPFADSDRHCNQP PAGAEVTNRPSFNRPLVLLPLRLGLTDINBAVETLKHCFMMP QSLGVIGQKPNASHYFYGVEELIYLDPHTTQPAVEPTDGCPI PDESFHQHPPCRMSIAELDPSIAVVRGHLSTQAFGAECCLGM TERTTGFIRFFSMLG
6630	2	423	LIVCGGIRRSANWAMPGRHVSVRVLYKRVLLQHRVLPDLKS LGDQYVKDFRHRKTVSGDEAQRFLQEWVYATALLQANENRQ NSTGKACSTFLPEEKLNDFRDEQIGQLQELMQRATKPNRQFSI SSMKPKF
6631	2	423	LIVCGGIRRSANWAMPGRHVSVRVLYKRVLLQHRVLPDLKS LGDQYVKDFRHRKTVSGDEAQRFLQEWVYATALLQANENRQ NSTGKACSTFLPEEKLNDFRDEQIGQLQELMQRATKPNRQFSI SSMKPKF
6632	1273	588	WNSKQKIQGAAFLAPAAAMKAVVQVTRASVTVSGEQISAIGR GICVLGIGLEDTQKLEHMVRKILNLRVFEDESGKHSKSVMD KQYELCVSQFTLCVQKGNKPDFHAMPTEQAQFPYNSFLQL RYTRFPELIDKGFAYNQVHIQNDGVPTELESAPGATATSDP QKLSKLEKQQQRKBRTRAKGPPSKSKERNTPKRDRASSGAEG DVSSSERP
6633	1145	617	ATGRHSGVPTLEGIQQLVNGIITPATIPSLGPGWVLSHNPMDY ANANGDLALITQLAQFENITGPADSEKIQALPTVPTTIEHV GSGLECFCKNDYALGERVQLPCNHLLFADQIVMLEQHSDFP VCRSLTGQNTATNPGLTGVSFSSSSSSSSSPNENATSSS
6634	1	1134	CGGIPKRSQPRRLFWARLDCLPRMLTLESLFNSLVTCYC GLCASIHLLKLLWSLQKGPACTFRFRAPREHPACLSOPSLGTHC VYRIKDSGLRPHYVAAGERGKPLMLLHGFPPEFWSRYQLREF KSEYRVALLRGGYGETDAPHRONYKLDCLITDKILDLSGY SKCVLIGHGNGMIAWLAICYENVMKLVINPHPHNVFTYI LRHPAQLLKSSYYFQIPWPPEFMSINDFKVLKHLFTLSHSG IGRKQQLTREDLEAYTVFSPQGLSGPINHYRNFSCLPKHK HMTVPTLLMGENDAFMEVEMAEVTRFTVKNYFRLTILSASH WLQDQDQDINVKLIWTLKESTREKQ
6635	1420	470	EMRAGQGLASMLKRWTRKRLPREDISPHQPSFARVPVAPSSSG GSGARPRPLFLSLLDJRALANAVPLKHLGSKVNTNIAK ILAQOTGRVRLVDARNHSDSPHSFDMSEYIMSQDLQLPLG LVPCCVGHSMGKIPAMILALQRPVELVERLIANDISPVESGVS HFATYVAMRAINIADELPEBARKLADEQLSSVIQMAVROBL LTNLVEVDGRFVWRVNLDAITQHLKILAFPPQRQESYLOPTFL LGNSQFVPHSHHPEIMRLFPRAQVQVTPNAGHWHADRPQDI AATRGFLV
6636	1514	1801	SPCMFSHKQDSHFOAVPQGEKKRLLRAPWRAFAQFQRLKHPAS QPIVRQCLQRPPLCGLVGPVQQQLPPELSLOPLVSPHSDFGNCWRD DKGNGVF
6637	2	1501	CSSSPCFHDFICVLDKAGSYKACLAGYTGQRCHNLEAGESKI KASEDSLSVLEERNCSDFGGFVNGYKQITGGPGLINGRAIKGT VSPFCNNSYVLGSGNKRTQQNRSWGGKQICTIACRBPISD LVRRVLPMPQVSRSTLILQLYSARAVKGLQJATKALPGL DPMQYQHLITQLOVECTSPYRRLGSBRTCLRTGWSGRATS CIPICQIENITAPKTOGLWPMQDAIYRRTSYSDVDSLHGAW FLVCSGALVNERTVVAAMCVTDLGKVTMIKTAJLVKVLGFYR DDORDEKTIQSLQISAILHPNYDPIILDAIALLKLDKARIS TRVQICLAASRDLSFQESHITVAGWNVLDVRSFGFKNDIL RSGVVSVDLSLCCBQHEHDGIPSVTDMPCASNEPTASDCT TARTGTAASVPPGRASPEPRWILMGLVSWSYDXTCSHRLSTAF

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6638	1391	224	TKVLPPKDWIERNNK GGIPQAQGNMAFWMAALCECRHWGFSFSAVLGRTPFLSPM PNSDIDLNLRLSKYRSPDRYRRASQEAQAFHWRTYREYFG EKTDPKBKIDIGLPPPKVSRTOQLLERQAIQELRANVEERAA RLRTASVPLDAVRAEMKTCGGYHQRKLABYTGLYRDLFIGATF VRYPLHVAIVAGSDLLAPVYCGEYVITUTEDQAQFVITYEAE SLMTLLTSLDGHLEPDAEYVLEWLLTIDPMAVAGSVQVCPYL PPFPAAGSGIHRALFLPKDQDIPDSIDARSPCYQLAQRTFR TFDFYKHKQNTIPAGLSFFQCRWDDSVTYIFHQLDLMREPVFE FVRPPDYHFKQCRFPHRQPLRYLDRYDSHEPTYGY
6639	2046	1268	IGCFIMDGGDGNLLIKRPFSEAEIDRRKRRGEEMKVKRFE DPRECPEEVDPRSLYBELQEQNRQQVESEKQFKPCMVRLD EDETNFLDEVSRQQLLEKQRRESELKELKEYRNLKKGVSCE NKKVEKKLTVPKIDETNFKFSQALLAGAVHKSSESGNSVKRL KDPPEPDDKNQEPSSCKSIGNTLSGSPSIHCPAAVCIQILPOL GAYSGSSDESSEDSEGTNATGKIVSIFRTNTLEAP
6640	117	1043	VLEPPDVSAESEDRLSLRVLGKTSQKSAANTILLGEEIFDS RIAQAQVTKQKASREWQGRDLLVVDTPGLPDTKESLDTTCKE ISRCIISSCGPHAIIVLLGLRYTESEQVIALIKAVFGKSAK KINVLFRKEELSGSPHPIADAVSLGIVKESGNRCQAFS NSKIKSBAEKSSQVQLVLEISRVQVCSBAVFDVDDIYKQBER LKQREVLRIKTYTDQNLNEIKLVBEDKXKSEKKEIKLLKLLK YDEKINIREBAERNIKFQVFNRIWQGLSEIMHFLSKCKFPYSS
6641	1	894	SAAVGRSEVRGCAPIRELKESARNDPVGTDAPLGLAVSS ASAPPPEGFSALSCTVEGAPASFGKSFAQSGYFLCLSLSGSLE NPQENVVADIQIVVDKSLPLQFSGVCDPMSKASVSKKRCMV KLLPLGATDIAVDVLSGKTKTPGYLRIQDMGGAFTWCKGAK APRPVPKRGLSDMQGLSLDAASQPSKGLLERTASRLGSRAS TLRNDSTYEASLYGISANDGVFTLHPFPGKSCSTLAFSAF ODLTIKSLADISEYNYGVVZKTAALPFSVS
6642	22	1296	PLSRMTMDPNDQAQRDIIFELRIYAPASDPSFNAQSGOTE KRAKMYTDKYNLQFTNINPANDFTQTPPGMALDNLVLAQV HGDYTRIVLNSREDEHPCPQFSAELIYVNLCEILLQVGELE NBSINDFYHFTPDRAPEELQPCCLLAKVNRKERRATASLJN KVMQVFRQITRALPKNSHLDQPKSKLELSYIELRLQSR MSQDDPSPPIVLEREKIQEILELKQRLRLCEGSSFRKIG NRERQBRFWYCRALAHKVLHYGDLDDPGQEVTFESLQEKIPV ADIKALVIGDKCPHMKESALKQKKEVLELAFSLYDPODTLNF IAPNKYCYIWDIGLSALLGKIMSSSELTYSLDTLLSMENKRLRL LDLENIQPEAPPPIPKEPSSYDVVHYG
6643	3049	2265	SLHAPAGRTGRGLASPKFEMLRKIKLMDINAHITCLSCGYLI DATTITECLHTFCRCLVKYLEENNTCTPCRIVIHQSHPLQYIG HDTWQDVIYKVLPGLOEAMRKQREFFIHLGMVPPKIGKSTC SAKHLDHSHNGRTKADDSNCEAAEKKPEEDNDYRSDQVSI CLECNSKSLGLKXKIRCSQAQTVLHKKFAKKNLSSFNEL DILCNEILGKDHLLKPVVVTAMGFKAALLHYRPKDDL
6644	1489	290	FRPLATEPGSSFPVLVSSTMSVTLFLLENLGGSMILYLDQR LEQNIIPQDKARKVLDIISTWNRKFWBELFPQGLYSKALR TYVRLHNASINKLASNDKLELNTWAPKQVLLCPREKDLV LYVTHLYTAKFIRDSPTLQOQDETROLTEIYGLSAGEFO LIROTLLIFPDOLIRVSNFLKQVQNNRIRVLPVSPVPWGT EVPGLIRMFNNKGEKVIKIEFGHGGNYVPAPKDSSEFETGDRVL KLOTNMSVNPQVETHVSGSSXNLASWQESTAPNPLAKEELNP LARLMGGMEIKKPSQPEPFRNLFTTDBEEQALTRPEELSY EVINIQATDQQRSEELRIMGFEETTEQRLSTSKGDDLLAM DEL

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6645	6530	4646	FVEGLAGYVYKAASEGKVITLAALLNRSSEDIYLLGYVQQG GQRSTPLIIAARNGHAKVRLLEHYRVQQTGTGTVRFDGVID GRDALCAAGAGHFVVKLLVSHGANVHTVTITPLRAACFD GRLDIVKLYVENNANISIAKNTDTCLMAAYKGHTDVYRILLE GRDPAKAKCMTALHFAEAGHTDITVELIKWRAATVNSHG NTPILKVAARECKADVVELLSHNDCCRSRIEALLEGASFAND RENVDIIKTYHYLYLAHLERFGQGDNDILEKEVLPPIHAYGRRE CRNPQELISIQDRDALHMBGLIVRERTIGADNDIVSHPIYRG AVYADNMEFEQCIKMLHLALHLRQGNERTHKDLRFAQVFSQM IHLNSTVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHMANDN YECNLTYPLVLCISTKTQCSSEEDQCKINKQIYNLHLDPRTE GFTLLHLAVNSINTPVDDFTNDVCSFPNALVTKLLDGAZVNA VDNEGNSALHIIVQYNRPISDFTLHSIIISLVEAGHTDMTNK QNKTPLDKSTGVSEILKTKMQMISLCLAAARAVRANDINQDQ IPTLEEFVGFH
6646	176	890	PSRMNHLPEDMENALTGSQSSHASLRNHSINPTQLMARIESY EGREKGISDVRRTFCLEVTDFLLFVTLMMIELNUNGIENTIL EKEVMQYDYSSYDFILFLAVFRFVLLILAYAVCLRHWNAL TTAVTSFLLAKVILSKLFSQAGFVLPILISFILAMETWFLD FKVLQREAEENRLLIVQDASERAAIPGGLSDGQYSPFSEEA GSEAEKQDSKPLLEL
6647	176	890	PSRMNHLPEDMENALTGSQSSHASLRNHSINPTQLMARIESY EGREKGISDVRRTFCLEVTDFLLFVTLMMIELNUNGIENTIL EKEVMQYDYSSYDFILFLAVFRFVLLILAYAVCLRHWNAL TTAVTSFLLAKVILSKLFSQAGFVLPILISFILAMETWFLD FKVLQREAEENRLLIVQDASERAAIPGGLSDGQYSPFSEEA GSEAEKQDSKPLLEL
6648	413	897	RNCWNCPTKYFNSFPEDIDHKDSYLTISTNAEPDYIEDDNFEL IRPQKLINPVKTSRNHQLHRELLMNQGRGLAPQNKPELQVME KRERDQVIQKKEEAQKKSQDLELELTLKQGLELEKFKQLQ EEQENAFEFVKVGNLRRRTGQBEVAQES
6649	1357	832	WPKHAKIRHEVWVKEKINSQRTITVALLKEPEQFNRRLNRY SRVRPLPVSMILWESCTILANHTVSGYANVKKCEGRALM QLDPQOFLMKLEKIDIRIPDKEFVEYIKAYVLTENDMEWI KEHREYSTKQLINLVNVLGASHINKARQLLAAIDIDDPFR
6650	32	765	LVPLVPSLLVQSCQVYRTAKVFPVCLLIVPLSCILGLGQAPR QKQGSTGEHFHPTGGGDSCTVRSSLGQAGGEVWLVDCRDT CTYWCYRGQPSMCAFAADPKSYNIQALQELRLHHACQGA LRPSVCRAGPAQHMQVTSGLKGSPEENQOFRAGTPSLRPAT VKLTRATQLGKDSMEELQKAKFTRTPAKTPQFGRPGNGEAK KKAVEHCWKPFQALCAPLISFPFG
6651	3425	1353	AKELLKVGDFSLCAGFYQNTADFTMENLSEKPLASVVSSEFDISA CGIATEHVKIDINSGBGLTARAGSETLSRDGVEGVNSDMHYELSC DSDLDLGLGCRNPRDLDELSDYTLGASVYTRKDDVPDGYESSINF HNNQBDWGCSSWVPGMETSPLPGRHTAARVKKKCVPPYVQIR DILGILRTYANYSYTKRILKMTMTSHGLRHSPFSANGLPSSW TSWVADDLQVTLDELIVLFRHKLQGTIRKGLSGHSSASANV PDKESPTQISLGAFTKISEAFHLHAPRSPLLVTSDEP RPOQQRNGTASSELSSNREKRSIHRLNRSQNTVESH NKLKYNSTVKESRNDISLILNEVAEKNVMSNSQIFQDKELN DVSGEATAQMYLFPFGRSASVREDIITDVCTNLHVLESVVKEA CKSTFLYLVETEDKSFVFRKTNLRLKGGHTEIEPQFCAQFHR KNUTLIIIRNEDISSHLIQIPISLLKHPSPVIFAGVDSFGD LDHTYQELFRAGGQVISEDKILEAVTLVQLKEIKILKELNGNG RKKWLLHYRENKLEKDERVDSYHKNIMKLSFQSANTIELLH YHQDSRSSTKAEILKCLLNLTQIHIDARFAVLLTDKPTIPREV

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6652	2	1343	FENNGLIVDNNFTIENTKIAAPFRSSYW IPGSTTSCSCHRRLRGSGPAPRSLGGAAPRPRPSPPLPLPL PPLPLPTRPARRAWIRSRASEVWGHQEVPLRCHALNSPTSPC EEVIGNLSLEAIQLCDRDGNKSDSGIAMEEELVPHNIIKISNI TCDSPFKISWEMDSKSKORI THYFIDLNKENKNGNKFHKHDVPT KLVAKAVLPMTVKGHINFLSPRTETTVAVQTSKQVGDGVVSS WSEITFECTADYSKVHLTQLLEKAEVIAGHMLKFSVYFRKHQKE YEDYREHMGNAQPSVKMNSOSIGSPISGLLEIFPFCSTSPN TOKPPQDSPYGRYFELIAEKLFNPINILYFDFYCMTHATHTV ILVIAPVGSPPGDEFKQRLPOLNSKDNKFLTCDEEGVLYVYHHA QDVILEVITYTDPVDSLGLTVARITGHQKMSLSTANAKIDPSCKT CNISVGR
6653	170	1910	FFLPEPLRPFPPASRARFVPAPRPSRLPMPCCCFEGGGGMLSPQ RVAAASRGADDAMESKGPVVOVLVQKQCSFEGSFLDEKALASI LLODHIRDLDVVVVSVAGAFRKGSGFILOFMLRYLYSQKSGHS NWLGDPEBPLTGFSGWRGSDPETTGITWSEVFTVEKPGGKVA VVMIDTQGAQFDSQSTVKDCATIPALSTMTSSVQIYNLSQNIQED DLQQQLLFTYVGRLAMDEIFQKPFOTLMLFVRDMSPPYYSYGL QGGHAFLLDKRLQVKEHQHSEIIONVNHHSFCFSDVTCFLPHPG LQVATSPDFGLKLDLASEFRGQLALLPVLNPSKLMKEKING SKVTCGLLEYFKAWIKIYQGBDLKQGLQATATNLAARAA SKADITYNNMEVCGGKPYLSPDLSEKWKCEIQLALDFKFK KMGQKDSFRYQCEKEEIKELVNFCKMGSKNVSTFRTPA VLFTGIVLALYIAGSLTGIFGLEVVAQLFNQVGLLIALLTVGY IRYSGQYRELGAIDFGAAVYELQASSIHGNSGTQATVEDAVGR PSMDKKAQ
6654	1	705	RTLSPSQCSFNLAMASAGMQLGVLTLLGWNGLVSCALPN WKVTAFIGNSIVVAQVWEGNMSCVQSTGGMQCKVYDSLLAL PQDLQARALCVIALLVALFGLLVYLAGAKTCTCEEKDSKARL VLTSGIVTVISGLVTLIPVCWTAHAVIRDFNPLVAEAKRRLG ASLYLGAASGLLLGLGGLLCTCSGGSGQP SHYDARYSTAP AISRGPSEYPTQNV
6655	341	16	KRTHFRKGLLALALVLSLPPFAAEHWDVAVPQQYQCEHVQGA INPLVFKERIRATVPKIDITVKVYCNAGRGSGQAKELISEMG YTHVBAAGLNDYAMPKVG
6656	2	1212	TELDPRPANAIDPPSLLEALAPLEKAPVPPQKGNKAKVAK DLNPVGWKMSLAQQLQASRGVACLCCTCGFEPHGRKIKCSC KCQSDHCLTSDLEDDRIKRLMDSKYSLTARVKGQDQIRIY KENRMIMINP IATGKDPFTDTITYEWAHPGVTKQLQVYMLIP KEKQPVGTGEAFYRRRQMLHQLPIYDQDSRCRGLLENELKLM EEFVKQYKSEALGVGEVALPGQGLLEKESKQKQEPQAGETAA TNGSLSDPSKEVEYVCELCKGAPPDSPVYSDRAGYNKQWHP TCFVCAKCSPLVDLITYPWKDAWPCGRHYCESLPRCSGCDRI IPAEYDQREVDLAWRRKHVFCRCGCPQLLSGRAYIVTKGQLLCT CSKSKKS
6657	830	2120	LATQCRAGDCLLSASTMEVYVNSPKKADWLLNENAMPECEP LEHPTQQDLINLTQEDFKPPLCKVSSDNGRLDMIEI LKNEH HLRANKNGHANGELNIGVDIPTDGSFSIKIKPNGNPNGYRKEM IKIPMELEBSQYPMENKTFAPVYALSFPVLTVMVSVVHER VPKVEQVPLPPTFHMRNVQWASICEINCMVLMGLIQWL LKYKSIISRRETCIVTLVLYRCITYVYVTLTPVGMHTNCSPK LPQDEWALRLIMKLDAGGSIITGSHHMGVLYSGHTVNLTL TYLPIKEYS PRLLWVWHMICWLSVVG: PCILLAHGHVTVAVV AYYITIRLFWMYHTMANQVVLKASCMMLLAVWVYRFPQYFEK NVQQIVPRSHVPPKVPVHLSRQVYSRLNET
6658	35	855	HCCATGAPGSPYRGLYFSSAAPCTAPRIKARQSTLEGLTKRMLM

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			FDPPVVKQKAMDPVSVSYSPSNYMSMKPNKGVYSTPLPEKFF QTPBGLSHGIMEPVDLTVNKRSSPSPAGNSPSSLKFPSSHRRRA SPGLSMPSSSPFIKKYSPSPSGVQPPGVPLSMPFVMAAALSRRG ITPSGLILEVQPVVQPVPPFMYTSHLQQPLMVSISEEMSSSSS HQVPVIESYKPISQKKIKIEPGIEPQRTDYPPSEMSPFMLMSV SPQQALQGE
6659	18	523	EPQRGDCHTWQNCSSLPKFPVFCFQFPLMRHSHSNHLSLPLGL RGLTISRNLQCTNAMRVINNYQRRWQIQNTFLLATFANVNVV CGNPITITCPHNRTLNCHBSGVQVPLNYCLTPTSPONISNCRY AQT PANMFYIVACDNRDQRRDPPQYVPPVPHLHTII
6660	514	1707	CAASLDCRHNLCEPDMKLVPSAKIKQAAGASAFKCDSTVSNV LPILLQEPHKISSQSQRTILEMLLGLFLKQKSYEDKQRPDL NGPKDQLCSLVPMALTDPTSLQLQVIRTLTVLGAQPDLSYED LELAVGHLYRLSLFKEDSQSCRVAALEASGTLAALYPVAFPSHL VPKLAELERVGESNLTNGDSPTQCSRLRCLQALSAVSTHPSIV KETLEPLLQHLAVNRMGMVAQSSDIVIAVQCSLRQNAEKQQDD ESCWYFHQTAI FCLLALAVQASMPKEKPSVLKVLLEDVTLARM VSVTGTATTHLSPELAQSVTHI VPELFDGNVSLFENSFPBRF QPFGDSSGQRRLLTALLNMFVCSLPFRNVSHEWVILLFNLDKVT PG
6661	179	430	GVAASGTLASATNLAAKVFDSLAKGKYLQGAQNLKQWPPYD NYVHMVRVNHPPQCTMTYEEFPFRERQDARYGKGGARCC
6662	185	423	ESLPKFPADAPASIHCAFPSTPTPTFAKTMSEKNTAFNALMYC GPKADDGNI FSAACAPASSAVKASVVAQPPQAVIP
6663	3	1005	RPVLSRVDDPVPFLPETSGRKKRLERYSVORVSDDIPIRTWF PKENLFSQPTASTMQAISNFRKRLRMVGRSRVKAQTFARRER SFRSWSQPTPMKADTSHDSRSDSLQSSSCTLDEAFEDLDWDT EKGLEAVACDTGFPVPPKVMILSSKVPKASYIPTIIRRDDPSII P ILYDHEHATFEDILEEIERKLVNYHGAKIWKGLIFQGGGFGH LYLLKKNVATFAVKEEEMIHFWERLSRLMSKVNEPENVIHIM GCYILGNFNGEKLQNLRLTMTPTPTPTSPSLBELSQAQGMIST YFDFRLRLAKSRQHSKLLDFDDVL
6664	58	968	PKGLRAPSPPVMSFWDELALAFSPSTSMFFEDIANIYVMSVA VGRQGAALAWNPISNPTDMLHCFCGGLSCLLAEPLKPF LANHTWILLASSIYWTPTCPDILVQCYSTYPLCLLSSWREY TRTWKIVGGVTHANSYFXKGMVIAICWARGAGCTITPTFRL VGGDKPGEENLMSYPAKVITLGSVITPFGVHQAISKCNL MPLYTIFIVATKILIMTTQTSTMTFAPEDTILSMLEFGWQPPS SCREKSEAKSPNGVGSLSAKPVDVASDNVKKHTYKNE
6665	171	1278	DEPLACRQVVVQORSLEYPGQKGRFLPAGSEARAGQGGHLL PGRNLGPGCTQNPCSVHTATGPERKLELLPDPSPNSGYPKEPA ALCPGIPSPCRMTHQDLSITAKLINGGVALGVGTCTVPIDIAK TRLQNHQKAMYKGMIDCLKATARAEGFPMYRGAANILTLVPT EAKIKLAANDFERRLMEDGMQRNLMKEMLAGCGAGMCGVVVTC PMELKILQDAGRLAVHHQGSASAPTSRSYTTGSASTHRRPS ATLLAMELLRTQGLAGLYRGILGATLLRDIPFSIIYFPLFANLNN LGFMELAGKASFAISFVSCGVAGSIAAVATFELDLVKTIRITQLK KGLGBMYSTYDQAR
6666	498	2868	MTPLPVMQMAQSPSGTGNPQSPESFAMCTIHQPFIVSGCLT MSFCWCPQPKQKELVGLMDIRKPOSSILRFGRNLSHSEVRF NSNQTOLIALRRLLPPVLIYHSRLPVPQDNQVYNSCTKXS C CFAGDRDQYILSGSDDENLYMWRIPADSEAGCIRVUNGFVNL KGRHSIVNQVRFPNHYMICSQGVKEIKIWSPYKQPGCTGDL GRIEDDSRCLYTHEEYISLVNLSGSLSHDYANQSVQDEPMMA PFDLSVRREIRGWSDSISDLSSTILLQHDGVSERSGYTDSBS SASLPSPPFTVDESADNAFLHGLVTTTNTVASTPPTPTCED

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6667	171	1310	<p> AASQQQLSALRYVDKELLALSSEDSSENVCEVBLDIDLPPR PRSPSPEDSSSSSSSSSEDEELNERRASTWCRNARRRQKKT TREDKXSAPCKPTINTYIGEDNTDYDQIKVDDSSSTSPSPERST STLEIOPSRASPTSDIESVFRKITYKAYKWLRYSYISYNNKDGGE TSLVTGFADGGRAGTSHKNDPAPSSSEACLNIAQAQRNDLPP EGCSKDTFKEETPRTPSMGPGHEHSHAWAEVPEGTSDQTGNSG SVHEPFTFKLNGQLSSRAEPPGPPVPGKASGSLNSGSGNCP RPGDDSSERSLSTICAMHNNRRLHPRPFPNNNGCNLGELEVV AYSSPGHSDTRDSSSLCTYLLHKDCSSSEACITPNAQGTREDD TDTPATDSNAVYGHSGSLKKRTELDTDEENSSSEKKLT AEEVERLAANESDILVGTHTTPIRRRSKPKLGLRIKPKWARK KSKFKHTSAALKRISMRQSREELIKRVLKEIYDKDGLSTI SNEEDSLENGQSLSSQLPALSEMEPVMPRPDPCSYEVLQPS DIMDGPDPGAPVPLPCLPVKLSPLLPKKVMICMPVGGPDLGLV SYTAQSGSGGQVQHHHTVLPSQIQHQQLYGSQHQLPSTGSL PMHPSGCRMLDEINKTLAMTMRLESSEQRVPCTSIYHSSGLHS GDGVTKAOPMLPEIKQVPTVVLEDDNKENVPHSSDYRDSCL YTREREEREDEDDSSLYTSSLAMKVCRKDSIAIKPNRSPSKR ELEKNILFPKQDEERLELRQQIGTKL TLAVATGPAITLRCHVTSSENNCKHSVFCASSRFRCTINTVPE LRNGLVKDCAESCTPTYLQGVSSSTSSQCOQDEBLNCKLH NDAPTGTALASALSLSLGLSLAVLADSL KDEETRKDYDVLHDEBEETYSHYTYVSRRLAPKVDYVRLVLS VCAISVPQPSWNNYSNKALSYLATVPKRYQATEIAKQOGLK KAKKGNKXKSKKEIRDEKENIKLXKSKIDIKGVYKQPKQICD LLLQFIILAPHLCSYIVNYCRMIYNFNINKEGYEERELVIR KSMKMSKQFDSLSDHQKETFLKRELMIKENYEVYKQGEELK KICLANDPRWKRYERWMKNGPGLTFVDD VARI*CEAAKQSSSEPPPPYPGGPTAPLLEKESGAPP*PGRSSPA VMQPPPGMPLPADIGPPPYEPGHPNPQDGFIPHMSADGTMY PPGFPYPPGPHPPMGYPGPGPTPGFPYGGHTATVLPVSGAA TTVTY LPAREKPSAPNKAAGGRGQPOLTALLAAVAATAAGPEEAALP PEQSRVQPTASWTLWEGEWMLPAPHPCPSCQQTDESEWAF AKNGRELQISVGKVDVQEGPQSGSPVITLPAFHAKDGIFRR YRGPQIPEDLQNVILEKKQSVETPTGNKSPALTYAGQWGLPS ISGKIHMLHNFTVTGLIPAMCEYVFFVIAITVPLGMDLVLV ISQCNNDPPYRHVS*/RPSITNLGVNTHAHTSEHLRL APGSKFQVMDPEGKTSFGMSVFNLSHA*MGSGILGLAVANHT GVIFLAILLCLALLSSYSIHLLCTCAGLAGIRAYEQLGRQAFG PAGKVUVATVCLHNVGAMSSYLFIKSELVPIGTFLYMDPEG DNFLKGNLLIIVSVLIIPLPALMKILGLVLTSGLSITCNLEF LVSVIYKQPLGLCYRATMKQWSEALVTPOPRDSIAVAKQ MFRS*LTGVLTQWPIMAFAPVCPGGAGSITELCRAPQAD LQIQTHHTHIGARVTHLGHOLLANACTNLCRGQSSNAPAFSQ SVTCQSPSPCVRKQESATKCLHIGAGSDMAMRWEGQ*G*GLNV WLCVPAFIRGAEAPQAGRGRRNLSVSPHPIHP*HSSIGAE NAVPPR*Q*KNPSGQEQAG*WVLPILPFTCEKLKPLGLPG*HK SFSRV/SGSKGKWLPRQML*AS*RTFFPVPQTCWPTW/PL ITWH*SAPTP*PLKACAPRPSDDPCSSCLSCFPTQHPRPSTGN FGAGCHSSCDPTRKGAAGGG LEFDYKQYDITVEVRGDRDGGIKRVCQNRFPAPICSGSSIL HVLPHSDSKNFDGHAIFYRITACSSSPCFHDGTCLVDKAGSY KCALAGYTGQRCEHLEERKSDPG/WFSQWVFNRRCPNAYQ PTPC*IGTRVAFPLT </p>
6668	714	358	
6669	459	1207	
6670	184	594	
6671	1	763	
6672	304	1089	
6673	1116	1963	
6674	1	440	

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6675	277	1678	GNWPTERNAFLDNPTTILAHIRQSHVTSDDTGMCNVLIDHDVD LEKIHPPSPMDGSGEIQSGNGETGQVYVQAQSDVITSSWDPGIR RRSNTAQRLERLRKRQNOIKCKNIQWKERNSSQSAQELKSLFE KKSLEKPPISGKQSILSVRLQCPQLNNPFNEYSKFGDGKHV GTTATKKIDVYLP LHSSQDRLLPMTVTVMASARVQDLIGLICWQ YTSSEGREPKLNDNVSAVCLHIAEDDGEVDTFPPLDNSNEPIHKE GFSTLALVEKYSPPGLTSKESLFPVRIINAAGFSLIQVDNTRVIM KEILLKAVRRKSGSKVSGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTVDQL/GCALFPGLRRAAFVDCRLRPS ADTWREGDIOCCGACAAALRS*DSHKC*BGISGDKVEIDPVTWC KASTKFWIKQKFTISIDSDLLCAC/DLAAE
6676	277	1678	GNWPTERNAFLDNPTTILAHIRQSHVTSDDTGMCNVLIDHDVD LEKIHPPSPMDGSGEIQSGNGETGQVYVQAQSDVITSSWDPGIR RRSNTAQRLERLRKRQNOIKCKNIQWKERNSSQSAQELKSLFE KKSLEKPPISGKQSILSVRLQCPQLNNPFNEYSKFGDGKHV GTTATKKIDVYLP LHSSQDRLLPMTVTVMASARVQDLIGLICWQ YTSSEGREPKLNDNVSAVCLHIAEDDGEVDTFPPLDNSNEPIHKE GFSTLALVEKYSPPGLTSKESLFPVRIINAAGFSLIQVDNTRVIM KEILLKAVRRKSGSKVSGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTVDQL/GCALFPGLRRAAFVDCRLRPS ADTWREGDIOCCGACAAALRS*DSHKC*BGISGDKVEIDPVTWC KASTKFWIKQKFTISIDSDLLCAC/DLAAE
6677	277	1678	GNWPTERNAFLDNPTTILAHIRQSHVTSDDTGMCNVLIDHDVD LEKIHPPSPMDGSGEIQSGNGETGQVYVQAQSDVITSSWDPGIR RRSNTAQRLERLRKRQNOIKCKNIQWKERNSSQSAQELKSLFE KKSLEKPPISGKQSILSVRLQCPQLNNPFNEYSKFGDGKHV GTTATKKIDVYLP LHSSQDRLLPMTVTVMASARVQDLIGLICWQ YTSSEGREPKLNDNVSAVCLHIAEDDGEVDTFPPLDNSNEPIHKE GFSTLALVEKYSPPGLTSKESLFPVRIINAAGFSLIQVDNTRVIM KEILLKAVRRKSGSKVSGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTVDQL/GCALFPGLRRAAFVDCRLRPS ADTWREGDIOCCGACAAALRS*DSHKC*BGISGDKVEIDPVTWC KASTKFWIKQKFTISIDSDLLCAC/DLAAE
6678	221	865	QNSGSGSLSLITGCSSTVMS*INDTCTLLRLSSNFGQ*LR PPCSQLPMSQCCLMHLCCCQKVPYTPQCGNRGRQVRN*QS LIGSDQBSUGLEDLCVFNFTLHVLILQLFP*PHELFLPVVDIGL FLFPDLLQGGCHCLVLPANLVSCAPQIGKLSCLRQTHDLEGSRN HHPLFLVVGMDAVKHLETQVSGSLASLGVQHTSHGPP
6679		786	LEFARGAMPFLGDWDSPPQGNVKTVDGRKFLDEKSGGFSVOL SSYCNKVEYNKRNLPNSLNYD/SCQSEKEGHAE*QN'S/DFH QKMWIVIRKSTKERHGYCTLGEAFNRLDFSTALDSRNFNTVV RLLELIAQSQTLTSLSGIAQKNFNHLEKVLKVLVEDQONTILIR ELQLTLYLSLCTLVKRVGKSVLVGNINMWYRMETILHQQOQLN NIQITRVYSGQAQPPGSGSLHRTQTRQDEFTPTVTESSGLF
6680	1498	2951	PLCTLLPMPALPGWAGBRNEKONFLA/PGGFWUTPVQISLSE P/RNEPETHCPREGRAPRV*HLKPKHPSGSGEAIQTS*ALP /NOVSPQW*GABENDGDRGKKEAELHLSGCLTAAPGF EVHRIQLCTFPLPSRGGG/OGKAGQSGNAGGPP/SLPLPAS MORSQAGLQWREGLVSEPTHHIPLALRPSGTNATGEAFSTTCS SGP/PAPPGTGLRPGCGSSSGHGG*PGLPVGV/GALGAAD PQSGRGPTGTVGTETKLSGLGSKACPAARPAVP*LPSPDAS TTPKGTTRGFGGPGVQLSENRNVVGRAGFTSADAAGTAPPGV *LPALPISQPPGATEPQVRAQGMAPPSPOTSRLVAGRHGPGVQ AQGCPPGAGCWSQPRGSGRCPTTYTHSLPHGRAPCPRCRHW* WQDPSSSPRTGCLPGIPARQAYAPRTSRGRLTGRALYGFIR PQGGGGG

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6661	1169	511	INITYYNQQQRAPEHLK(EKLMSAPALGLPDLTKLPLTHVSERE KMTVGVLTTQTPGPNRFGAYLSKQLOGVSQGNPPCPRALAATL LAQSADEKLTLRQNLNRKSPHA\VVTLINTEGHH*LINARLTRYQ TLLCENPHKTIENVST/LNPATLLLVTFSPVCHNCLEVLDSVYS SRPNLRDHP*TSVDWELVVDGSGFANPCVKTLKKETSFAVTPTR S
6662	109	1238	TVLCGAMOVSSINLVKITYLSQGSGLFQWSDRKKRALQKQVD VRRRIELIQDFEMPTVCTTIKVSQDQYILAATGYPRVRCVDT YQSLKFERCLDSVVTFEILSDDYSKIIVFLANDRYIEPHSQSG FYYKTRIPKPFORDFSYHYPSCDLTFVGASSEVYRNLQQRVILN PLQDAENNVDCINSVHGLFATGTIEGRVPCNDPRTNRUGVLL D\AP*TVSQIQOR*TSLPTISALKFN\GALTMVAVGTTGGVLL DLRSDKPLLVKDHQYGLPKPSVHFQDSLDLILSADSRIVGMWKN NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPMGIYIIVFL GPAPRNCFLDNLTFELENPESE
6663	109	1238	TVLCGAMOVSSINLVKITYLSQGSGLPEKLSRKKRALQKQVD VRRRIELIQDFEMPTVCTTIKVSQDQYILAATGYPRVRCVDT YQSLKFERCLDSVVTFEILSDDYSKIIVFLANDRYIEPHSQSG FYYKTRIPKPFORDFSYHYPSCDLTFVGASSEVYRNLQQRVILN PLQDAENNVDCINSVHGLFATGTIEGRVPCNDPRTNRUGVLL D\AP*TVSQIQOR*TSLPTISALKFN\GALTMVAVGTTGGVLL DLRSDKPLLVKDHQYGLPKPSVHFQDSLDLILSADSRIVGMWKN NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPMGIYIIVFL GPAPRNCFLDNLTFELENPESE
6664	111	527	GLRGGTSRGRAGEPEFAAGVLCVAGSQGSQCPGQRGRAPPA PP\SGRRHA*RPA*WLGQPGDSDGREGGS/GSLQAMESXMG ELPLDINIQSPRWQSTFLGRARHFT/TFPRLNLLSGAQLAS RNIVQNYR
6665	258	1473	KLLGDNFEGFCNKFELSDSESSNIS*QSP\LDLFDSPDQKVL CGVIMQNAVIGNNKQKANLIVAGAVPRILLYLQBSTSTELKT ECADVLSGLAMGTENNVSLLDCHIIIPALLQQLSLDPKFIKAC LKCLRTIIFTSVPTPEKLLYDATTYIPLHALLSSRSRYTQEYICQ IYPSICCKPDPHQITLPHNGAVGNLHLLTSLSYVGMQALKCTFS VLAJEPQVSMFLANVADGELLQPLCTFMSCKELLERVEGA KCLTYMPCACAIPTDNCITVLTCLPCLFMCKELLERVEGA ETLAYIEPDVQLQASITDHLNLANLADVYVYSSVAITDYK RLDHDLKHAHLRQAFAFLYASLGANDDIRKXVSLGGRPPVVL TASRQGVST
6666	310	927	DSVTFDDLVADVPTEKFTLLDPTQNLVRYDMLENYGLNATVGY QLPKPSLISLWLRQESRVTQGRDQASNKVQLKTKSLALQCDV LQEPSTSSQIMQISSHNGEVSIVKQCGVSESHSCLXTHVTRQN SENTPECYLVGVDFITLKKSTSTGQRVSFVSHVKKPSSINPDV VQCKNRCTRKKKAF*LOLTGLGSKH*SLHT
6667	181	915	EAMLEAPYKKKKEDQQRKEVKNDYPSNTTSTSTSGNETSGSST IGETSNRSRDRDRYRRRNSRSRQGRSRSWDRRHGSRSR SEDHRRREDRVHYRSPLATGEPVDNLSPEERDARTVPCMLAAR IRPMDLEDFFSAVGKVRDRIISIDRNSRRRGGIAYVEFCIKQSV FLALIGLTQRLGVPIIVQASQAEKNRLAAMANNLQKGGGPNR LVVGSLSHNTIDWMLKGTFFQRY
6668	1025	1	AEVENVKVFHRCPSDCRKKKFPQITQGLPILLSTSEKPPISF SHKPLR/SATARMATAAPPNSSIDLPSDGMGFISPAQDGLD LPDQDGTGFPSLAGDSSSTRLLSIAFISPSLSVSVSGSAGTTS STSVGSVVAAPTSSSSSASTNRDVAGLDFTSTVITSVGSILVPSRE VAVICGSKGAGAGSASCSBRAGKTTTATAASSMPSGTSSTFCT TMSLEELPSLSPAPLLSKLFTSSCSIAICQDSDGPSDTGRLS VQQLMLADSDTGKLSDCQRVVTVGSDDGICTPCLSLGRK*NSLL

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			SSAVIPGYSSSSDSRLNTVPTVDLLCFPTKSSST
6689	640	1299	SSASATYSATSISSDTAFSGSLKMKHCLLALDSSSRSTSTSS ABDSTFRICSPSVSDTSSDSSGKDNVILFVKSIS*SCFSLSS FFSDLSIFCFSSSSPCKR*FVSSKVSQNALSSRLSNQPGSSSK QRNSLTARQLAMSL*ATKF*RMACNPNCLSSKKKSL*LSLNORF GSSASRKGPIWISFSGKQCSALSYYCCNFVIXPREVSVSSNYPAF
6690	1	442	GTRGKAKTIGPTISGQQWQRCGLSARDGSRMLLLLLGSGQGP QQVGAGQTFEYLKREHLSKPYQQVQVTSSSLMWLMGNAMVMTQ YIRLTPTMQSKQGLMNRVPCFLRDWELQVHFHXHQGQKGLVH GDGLAIWYTKDRMQP
6691	287	1401	LKTTSEBKARRYKDRPSQINAVFQSGKHMIQAGESSITLEDVAV DFTWEWQLLGAQKQDLYRDVMLNYSILNAVGYQASKPDALPK LEQGBQLWITIEDGISHGACSDIKVVDHVLRIQSESVLYNRKFC HEHDAFENIVHCKSPQLLQGNHIDFLRGKSLKSNLTIVNQSG GYEIKNSVEFTGNGDSPIHANHERLHTAIKFPASQKLSTKSGFP ISPEKHOKTRKLEKHVCSBQKAFIKSVLTDHQVWHTGEKPHR CSLCEKAFSRKFMILTQHRTHTGEKPYCEPCQKAFLEKSRINI HQKTHTGKPYICSBQKGIQKMLIVHQRHTGEKPYICNEC /GKGFQKTCLIAHQRPHTER
6692	178	939	NKKGSLSWERPCANITKAGWPKHIAFIMDGNRRYAKKQCOVE RQBGHSQGFNKLASTLRWCLNLGLEVTVAFSINFRSKSEV DGLMDLARQKFSRLMBEKEKLGKQGVCIIVGLHLLPDLQGL IAQAVQATKYNKCFINVCFAYSRHEISNAVREMAWGPQGL DPSDISSSLKCLYTNRSHPDILRTSGEVLSDFLWQTS SCLVFPVLPNPEYTFWNLFEALQFQMHSVLQK
6693	178	939	WIKEGELSLNERPCANITKAGWPKHIAFIMDGNRRYAKKQCOVE RQBGHSQGFNKLASTLRWCLNLGLEVTVAFSINFRSKSEV DGLMDLARQKFSRLMBEKEKLGKQGVCIIVGLHLLPDLQGL IAQAVQATKYNKCFINVCFAYSRHEISNAVREMAWGPQGL DPSDISSSLKCLYTNRSHPDILRTSGEVLSDFLWQTS SCLVFPVLPNPEYTFWNLFEALQFQMHSVLQK
6694	292	813	SLLLHLAPFGAYTPSPQLSSVSTETASSVRQALESRQHELVPK EVHSLQGLPQDGLTAEAGPPAQPWHSQGISLPAAHIGFAAA LAVQSPGCHTEP*FDEVNPSLFLGDAYAARDKSKLLIQIGITHVV NAAAGKFPQVDTGAKFGRMSLEYIGIADNPFDDLGVYFLP
6695	292	813	SLLLHLAPFGAYTPSPQLSSVSTETASSVRQALESRQHELVPK EVHSLQGLPQDGLTAEAGPPAQPWHSQGISLPAAHIGFAAA LAVQSPGCHTEP*FDEVNPSLFLGDAYAARDKSKLLIQIGITHVV NAAAGKFPQVDTGAKFGRMSLEYIGIADNPFDDLGVYFLP
6696	1	782	PRVRGRGVGRMAFISVPAAMSSSENEPILLANSYFRKXFCALD LCTQMLESKYDQAAAILKARALTENVYIDIDVDORGTENMML DENALIAQVPRPGTSLKLPQNTQTKGSPQAVRPITQAGRPITGFL RPSQTSGRPGTMEQAIPTPTATYATPITSSSGREPVRLGTASML TS PDGPFILNLSRLMLTKYSQPKLAKALIKYIPHENDVKTALD LAALSTHSGYQKDMWK/DQIEKCYRVGMVREAKQIKSS
6697	3	782	PEPLRLNLSRALPGSEKVMVAVPASLQDQDQGSFAYLTIKDR IPQILTQVITDLHRHKSFEFFKQREGVBAEKRAISLLSKLRNE LQTDKPIPLVKEFPVDIDINQVILEYQQLLNESDGKSRKFPSP MLLVACYMYRRTHEAI IQSPIDYFDVFKSKBONFYGSQBS IILACTHLQGLIRTEDLDVNLQKDEFFKLQGLSLNGEISVDL SLASGSSSQNTWNLNSLIDKFFLLNMBHLSLLSNCK
6698	668	754	VGSCACAGSCCKKCKCIRCKKSKCAP
6699	325	492	DEETP/PARRVLPRAMTASAOQGRRRPGVGVVVTSCHPHCV LIGKRXGSGVGSVQLPGHLEPGETWERCQQRKTWEAALHLK NVHFSVSVNSFIEKENYHYVITLMKGEDVDTDSSEPKNVEPKK

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6700	1058	1392	ESKRRIYNHAFQESKWSGGILQ TQCHESSTPGMRTHFRTPQ/RLECGQGSQUNGHGCMTHNEICQ FFVFCPRDKFVCVNTYGSYRCKTNKKCSRGVEPNEDGTACVERT LLGLCNLLGK
6701	2	1485	AAAGPRTKVRRAAAFEQGPSFSGLGPSIDKAAATRTPKRRRLW RQDQ/HPAMLCVTRPDVLMVEVEKANGEDCNGV/CRRLLGI IEVDYFGLQPTGSGKBSMLNLRNISQMGDGAPIRLKLRVKE FVEPHLLIQDQTHIFPFIHTKEALLAGHLLCSFQAQVLSALLA QTKFGDYNQNTAKVNYERLCAKLSSATLNSIVAKHKELEQISQ ASAEYQVLQIVSAMENYGIENHSVDSIQQLKLVGVGPBGISIC KDDFSPIINRIAYPVQMATQSGKQVYLVITVKEGSGNISVLLFMI STRAASGLYRAITETHAFYRCDTVLSAVNQYSRDLKGLHASLF LNENINLAKKQVVDIKRTSKVEYTHARRALYNAGVVDLVSRRNQ SPHSPLKSSSSMNCSSCEGLSCQQTIVLQEKLRKLKKEAMLCM VCCBEEINSTFCPCGHTVCCESCQAQLQVBSAAHFCLOPHLSL LLTGSRSQVLAR
6702	397	1971	PIARPLKLDLVNVLCLMEVDVFLPYRTCTCSMGLSSCHLSLPK RAAALLCSRKATVVRDLVAVRRQAEQFTQLCKLPAQPSHPHCV NNYTRSAQHSQALLRGLLALRDSGILFDVWLVVEGRHIAHRLK LAASCDYFKMGFAGLKEKNEQEBVLHGVSINACQGLHPIYTS ELELSLNVQETLVAAQQLQIPIETHTFCCLFMSWIDENLLV YELASLPDLRLTQIUDTVLWKNFVAFSRITKRYQLPLEKVSLS LSNRLVESCETEVEYEGALLVHYSLEQVQADQISLHSPPKLLET VRFPFLMEAEVLQRMHDKLPSPRLDTVASALVHYNRESLQPSLQ SPQTELRSDFQCQVVGFGIHSSTPS/VSSAATRPXYLNPLLGEWKH FTASLAPRMSNQGLAVLNNFVLLGGDNTVQGFRAESRCRWYDP RINRMFQIQSLQGEHADLSVCVVGRIYIYAVAGRDYENDLNAVER YDPATNSWAYVAPLKRKYVAHAGATLGGKQYITCGRKGKIT
6703	45	1244	GVGPRAAAMPLELELCGRNVGGQHCFPIAIGONHQHGDLDVA KRMIRMAKCGADCAKPKQSELEFKNRKALEPYITSKHSWGKT YGEHKKHLEFSDHQYRELQRYAEVGIFFTASGMDMAVEFLHBE LVNVPFFVSGGLTNFNPYLEKTAK/TRGHSVSLRDCVGVQLNDE TSSMVLGRVTRSKSEKVLVLLVLDYSGRPVHVLSSGMSMDTMQ VYQIVKPLNPNFCFQCTSAVILQEDVNLVLEBYKELFLDIP IGYSGHETGIALSVAVALCAKVLGRHITLDEKTVKSDSHASLE PGBELVRSVRLVERALGSPPTQLLPCEMACNEKLGKSVAVKY KIPETGITLMDMLTVKVGEPKGYPPEDIPNLWGGKVLVTVEEDD TIMES
6704	82	1007	TMNTRNRVNSVGLGASPASRPTDRDPDPSGSGQELSPVDRQB LEAPKPGPSRESVUHAGORRTSAYTLIAPINNRNRNIEQIAEQE LANLEKWKKEQNRKPVHLVPRILGSGQSSQTEVRQKQQLQNLQSK YQKLEKREESVRIKKEAEBAELQKMAIKREKSNKLEKKRLQE NLARAEPRHQYKTAEFL/RQTEHRIARQKLSKCLNPTILN MOOKLGLQ/DSLKABENRKLQKMDBOHOKSELELEKQQQROR RAKIHOTHEHRRVNNAFDLRLQGSQPGLESGGQWNNMSGNSW GI
6705	2	786	RLCMSARVPCGWSASRSLRGSGAFIGLEGRPHFRAGGTGTSFT SYRKKGIMSTIAEYGGKSLITVAFPLKELMEKLRTRSPD LKVITVLPKPAQQTGLGRVQGLDSKLEFVYEVYRPHKERR ALVADQNDFAISKEQWGLLESDNIIIPHCATVREDTDRKA VOLNVATRQLLLMASQMPKLEAFHISTAYSNCNLAKDEVY PCPVEPKKIIDSLW/LDDAIIIDEITPKLIDNPNIHYTTK PHSSSSSHSQEMLGKINLNDGHPCTITTVQDKIFRAHKVVL AACSDFFRTKLVGQAEDENGVLDLHHVTVGFIPLLEYAYTAT LSINTENIIDVLAASYNQMFVASTCEPHKSSILNTPNSPG EK
6706	130	531	

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6707	2233	1343	YWSGIGYELQHPHWRKFFHEKKGPPSTCQRRLYSRSRWPCIS* GMVVGWTVANGSW*GGQLRCVCVCTSHSDSTSSQRAKCHS FFILSQ*KT*SSWENWFAKYSRYSYHSCSKRGD*DFK*NV SQAR*S RFGCLCNPCQHCGLDINLRGGSSPWTDKSCVHNLLC NRV7SLLEGGPHCYQAVCREACAASPOLDSAAEPHRLCEH TD*LPK*GGYIQHPHCDNTLCLYNLSFNLSYSF*GVARYA C*RGHWYFEWLLYNECODILVACL*RRQL*SSQ
6708	115	1729	TVGSNSRSRSFPVGRQLLTGRRQAQASPGQGWALQVLEVP GEIRVMPHPRCKLALGSDGVVTHESALTARDRVGVQDFVLL EMPTSEDAFENLARRFRNLITYYIGPVLVSVPNDELQIYSR QMSRVRGVSPFYESPHLLLAADVTVYALRTERRDCAVMSVSES GAGKTDATKLLQLLYAETCPAPQGGAVRDLRLQSNPVLRAFEN AKTLRNDSSRFKGMVMDQVDFKGAIPVGGHILSYLLEKSRVUHQ NHGERNFHIFYQLLEGGRETLRLGLERNPQSYLYLVKGQCAK VSSINDKSDWKVRKALCVIDFTEDEVEDLLSIAASVLHGLNII FAANESNAQVTTENQLKYLTRLSSVGGSTLREALTHRKITAKG EBLLSPINLQAVARDAKAVYSRTFTWLVGKINRSLSAKDV SSFSNRSTVVLGLDLYGFVFPQHNSFEQFCINYNCKLQQLFI ELTLKSEQELYEAGIAWBPVQYFNKKITCDLVBEKFGIITISI LDBECLRFGB
6709	3	894	PPEHHSFSSGGGFFFLVSRRLQPGRRKKGKAKKGGKASK TAAGKKGKVKSRKKEEDLEALHAFQTLAKKQVYDELPCP PSRLNASLHVPEKDELILPGGEHYNGQXTFLYNELYYNIRK DTWKVDIPSPPPRCACQAVVVPQGGQLVYFGGEFASPNGEB FYHKDLMVHLATKTMEQVKSITGGSPSGRSHRVANKRQLILF GGFHSTEDYIYINVDYAFNLDTFTWSKLSFGTGPFRSGCQ\I IFSLPRAASSVYGGYSKRVKDKVDKGRHDMF
6710	158	580	RHRFTNYRVESSGRAAKKRLALMGPAFIALGYIDFGFNATN IQAGASPCYQLLNVVVWNLMMMLIQLSAGKGIATGKNLAEQI RDHYPEPVMFYVQABEIAMATDLAEFTGAIGFKLIGVSL QQAVLDGIATFLMLQRRGQKPLEKVIIGDLLFVAAAYIVELI FSQNLALQGGKGVIPSLPTSEAVFLAAGV\GATINPHVI/YI WESLTOHLRSGSRQRYSATNDVIAIANTAGFVNLAMATAA SLIAFYGTGVA
6711	3	347	VTECKTYVCKSKQLERNI*FMINPLHYHVSGLGHPDLHIGBEK ELVETDLNHLKXKNQDQAI*HIMEBLDINAMQIIFKELIML MAMLTWSYHDNHDADYFGQGHHPG
6712	118	578	PHGQKRTYRQVRAQGQCPQGLALALCKQVFAKDKTFRPRK FEPG*ORFELYKKAQASLKSGLDLSVVLPPOENIDNIAVHV VDFFNRLNLYGTWARRCS*TSCTPNAAGGPRYETRWQDERQYR PAKLSAPRYMALLMDWISLI
6713	2485	3	QARGSDSEDCRFRTQAEEDARARKLQGRLEPFTFTEBCTSDVE PDTRBMVRAQNKKKKGGGQSMGLSYVPFVGINKKGYKVPITPI QKRTIPIVILGKDVAMARTSGSKTACFLMPERFLKTHSAQGT AKALLSPTRRLALQTLKFTKELGRTGLKTLALIGGDRMEDOF AALHREPDIIITATPRLVHVAVESLKLQGSVVYVFEADRLFE WPAFARLDELAKIPQGVVLRSAITPKLWEPASACITFEPV IRLDVDTKLALQGLCTSFFVVRDITAAVLLHLARVVRQDQVY VFAVTKHNAEYLSLTTQVSCAHYISALDPITARKINTAKFTV GKCSLTIVLTAAAGLIDPLEDNVINYSPAKGKFLHRVGRVA RAGRSOTAYSLVAPDEIPYLLDLHLFLRSLTARPLKPSGVA GVDMGLGRVPSVVDDESGLSLTASLELRGLARVACNAQQQ YVRSRPAPSPRSIKRAKENDLVGLHLPLFSSRFESEELQRLRL VNSIKNVRSRATFIRINASSRDLCSQVMRAKQKDKARAIARFQ QQGQRQCGQEGPVGPAPSRPALQEKQPEKEBEEAGSVEDIFS EVVGRKQRSGPNRGAKRREBARQDEFTYIPRKPQDFDSERG

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5714	169	1416	LSISGGGAFSGQAAGAVLDLMDGDEAQNLTGRQOLKWDKRRKRR FVGQSGQEDKKIKTESGRISSSYKRLDYKWKQKQKID*s*L GRRRGILTRRRPTEIVGEARPLAQAGCIPGHAPRHPPLQAESA LELKTKQQLKQRRAQKAALSQRWNPQALCPQ NKGQELLPPPPAPMAHIFSGGARAPAGAAGHGYQVCVCHVELSVS GQGLLDRVTSKSDPFCVLFTEINIGRWIEIDRTETAININPAF SKKEVLDDYHFEVSQKLEKALFQCKSSWLLDRHDFLGGFSCSLG TIVSSKKITRPLILLNNDKPA3KGLITIAQCLSENWITLISLGG RRLDKKDLFGKSDPFLFHYKPGDGGKMWLVRTEVIVKYLDPVW KPFTVPLVSLCDGDMIEP/QVMCYDINDGSHDFIGEPQTSVSQ NCEARDSVPLEFECINPKKQKNTKINSGLIILRSCKINRDSY FLDYILGGQQLMFTVIGIDPTASKNPLDPSLIHYINPMGTNYL SAIWAVGQIIQDYDSDEMFALGFGAQLPPDWKVSHEFAINFNP TNPPCGVDGIAQVSACLP
6715	32	493	GPAGAESGSLHCLPATVQALAGAAHSPGSGPPFRGPTLISGMP GKPKHLGVPMGRWVLAUSDGLSSTTGPQCGEGRGSSLSIHL PSGBPSSPFPTEQPVASWALSFERLLQDPIGLAYPTEFLKEKFS ARNVTFWKACERFQOIPASDT
6716	1	176	GAGGAPAPSPGSEHFAALDRDKMSARAAAKSTAMETAIWEQ HVVILARVSLCSK
6717	115	896	LPAHSGFENLVDFQTSYSDGQSQSYVYGGSGGPFISQTAG YDYSQOGRFVPPDWQPOCPYTKQIYQPTQATPAPRPTQNN FDEPPLLEKLGAINFDHIWQKTLVLHPLVADGSGMEYDLAG PMVFLACFATLILLAGIKQFVVYVIGSIAICGLGMFCLNLSMTI GVSFGCVASVIGYCLLPHILSSFAVIFSLQNMVGLITAGIIG WCFSPASKIFISALAMRGQQLLVAYPCALLYGVFALISVF
6718	290	599	QKSTVPGTILPSLKWNHNSGLCKPEITGGWTFPKSLGILTKDVA VITTEBELGLLDVQNRNLQDVMLENFRNLLSVGHIPFKHDVFL LBEKKKLDIMKTATQ
6719	1	691	PTREPEQUREDGKCHKMGNPISGNLNCDFIANSCQSDHGCET DLDSDDDKIEKPNFMKDSASQNDGLSRKISKRKVCSDSSLS QVVKSSKARTGLRITRECAATANKIKLMSDVEDVSLNVHT RSKMGRKKPLHLACTIAKKKLSDCBGSYHCEVPSBOYACBGKPP DPGDQSGYKVLSQLANGDSDEMDLNSHKKHRTNTHKCDAPSK RKSSTVSSG
6720	3	822	HVAEASAGGVYFQGRMTKTKRQVITPEPKGKWLITGEAA VPIETKSNPLTDLDKADAENIVRLGQCDARIPQESQALSTY QRLYSISILTMVQVAGKQVLEKPEPDGGLVLSGCGTSGRNAF LMSVSNQIMKGLQKPLTYTLIAGDNRSVVASRBTEDSALHG IEELKKVAAGKGRVIVIGISVGLSAPFVAGQDCMNNITAVFLP VLVGFNVPVSMARHFPFPRILRSLTVFPLRAHYQITSLLSFM SVTVLISE
6721	3	822	HVAEASAGGVYFQGRMTKTKRQVITPEPKGKWLITGEAA VPIETKSNPLTDLDKADAENIVRLGQCDARIPQESQALSTY QRLYSISILTMVQVAGKQVLEKPEPDGGLVLSGCGTSGRNAF LMSVSNQIMKGLQKPLTYTLIAGDNRSVVASRBTEDSALHG IEELKKVAAGKGRVIVIGISVGLSAPFVAGQDCMNNITAVFLP VLVGFNVPVSMARHFPFPRILRSLTVFPLRAHYQITSLLSFM SVTVLISE
6722	1	390	ERSKATVQALPMVALLPLLLFCPTQALADNQAIVVAEAVE LCPSSPTLRDEHLSWCSPPAGSFTTLVQVQVGRAPADPK PGRRESRLRLGYSNLNLEGSKEEDAGRYCAVGLQHINFORW
6723	173	659	VQYQCTAKMADPGLSAGQFVAVVNDKSSPVALKGLVDLQKLT GNEGRVSVENIKQLQSAHKSFPDILSGLVPGSTTLHSAEPL ARIARILRPGGCLFLKEPVEITAVDNNFSVKTKASKLCSALTLSGL

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6724	173	659	VEVKELQREPLTFEEVQSVREHLGHESDNL VCQYCTARMADFGISAGQFVAVVNDKSSPVEALKGLVDKLCALIT GNEGRVSVENIKQILQSAHKESDFILSOLVPGSTTLHSAEIL ARIARILRPGGCLFLKEPVETAVDNNKSVKTASLCSALITLGL VEVKELQREPLTFEEVQSVREHLGHESDNL
6725	356	722	RRRTFPVILATMDDDLMLAURIQEENLQEAERDHAQESLSLVD ASHELVDPTEDLQALFVQFNQDFHQGLQEAIVEVIGSVRMTLCAG TCSYEGKQWCSILSEELKLRPDLVEVFV HLQMKRKTNRREKKEYSQHNHSLDETCGKCKSTMTLTAWG GTYLIYTKQTLTKYPTFLQIGIVGKILCPDADGHYFIDRCGL LFRHVLINFLRNGELLPLPGFRNGQLQAEFFQKLGLEAVEVKS RNEKEQLTPRETITFLITTNHRSQGLRIPCNDPFIKIKSRIL VLVSKRLDGFPEEFISISNIIOFKYFIK
6727	1	831	FRGMDERPHYVKGKGTPOKYDPTFGPIVNRGCTIICCVFLL LAIVGVVAVGIIANTHGDPRKVIPTDSEGEFCQKGTNENKP YLPFNVIVKASPLVLLRFQCPPTQICVEKCPDRILTYLNARSS RDFEYTFQPCVPGFNKNGVAVSLRDGDCPAVLIPSKPLARCF PAIHAYEGVLAVGNETTYEDGHGSRNITDLVGAKKANGVLEA ROLAMRIPEDTYSWYWDIISLGIAMMSLFIILLRFLAGTNG RGMIMGILVLGY
6728	486	935	FCSSNWRSLADSSLSWEMFLVSLTGGTASKSSSVTQVFOQLQCA VLDVYVNRARVQVQVPAHRRIVEVQTEVLLENGDINRKLVLGD LIFHQDPRQOLLNATHEPIRKNMKSTFFKFLREPTSPRGKK HPSALKEADSLMRDT
6729	259	1191	VGLTGAQSGRTASNGEDQRAVGAQSLRNMILLGTIVVQFLAQSV LAGVKFEDVPCGGRDSCGGCCYCEKGGKQCPGVPGVGGVNP GLQCFPGLOQRKDKGERGAPVTGPGKIDVQARGVSQPGACGI PQHPGGQGPGRPGCYDGCNGTQDSGPGCGPGSGFTTPPGPQG PKQKGEPYALPKERDRYKGEPEGLVGVQSPGRFQHVQGM GPVGAQGRPGPPGPPGPGQKNGRLGFGYGVGEGKGDVQGPQPN GIPSDTLHPDIAPTGVTFPDIQYKQEKGSSEPGIRGLISLKGES GIM
6730	784	1015	NNVDYEVLSQRYASPEDIKKAYHVKALQHPDNKPNKESAR RKFVEVASAYEVLSDNEDKRDIDYKGTBGLNLF
6731	1	446	GIRKRLHGVVPRVEGCPWATERSEPGVHLERPTSPKKNDEGS LDYFAGLDSVDSASKSCVPSRNCILDYHETLITETGTAZATY NDLQVEYKQOLQKSLMKKFKKIQTPKSLINRQSLKKNCSA LTKTARVEINRIDEET
6732	102	1205	GWQRKPPFPEPLNCLQPGQSDPOLTCLRLCLSHSPDTPN AQRQVCYTAATQAAAPATKICLPDSGHRPTPPRSHRHEQEN LGSIKPSSRSTKATSTIMAGHGPAEAVREGWVVTTPRAPIRE GRGHLAPQNGGSDAPAYRTTPSRQRRERVSDEPPSVYGDPE PLVAKERSPVGKTRLEEFSDSAKEBVSREAYLRSRORQRP PQETEMKTRTTRTLQOOISQPPPLQSPVMTNRGLRDSHSSSE DEASSQTDLSQTSIKTIVRSIQEAPAVSDELVLRRPPLRYPR YEATSVQQKWNSEBGEDEDDQSSSHSVTTVKARSOSDESG DKITRSSESSQIKSF
6733	613	1311	RSCRQVMRSBNQGGESASDGHISCPKPSYIGNAGEKSTSEDAK KKKGNRKRDDVMASGTVKKRLKTEGECERKTKKSELSKEDLI QLLSIMBGLQAREDVHMLKTEKTPPEVLRAHYGSAPPEKVL VLKRDALLAQESIGREDVYERKPSBLDRLEBKQKBTYRMLBOL LBAKCHKRTYVLEBNKXHKITDYNNKSDPTNLLQESERRKK LLEOKAYQAAR
6734	189	551	SAAMFVYFSGCFRLQELQEKSLSELSFSEFVAFTWEEHQDLD AQRTLYEDVMLKTYSSLVSLGHCITKPEMIFKLEGGAPWIVEE

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5735	280	558	TGNTRLSGGSKQVFSGICHSRLVLEQEVHLV KSRRAQVTGMSNPLKQVFNKQKTFPRKRFEPQTFELHKA QASLNAGIDLRLAVQLPPGEDLNDWVAHVVDFFNRVNLVYGTI XDGCT
5736	195	808	MYELNPKREMPNRIKSLGTLNLLFLLKRLSSVLFLLITDYVYEN SSNPFLIRRISELNKTASGNVEAKVVCPTERRDISNLTLMILAD KIAKEEBSPTTVRADLTQKQKQLKRELFSLRSQYSELPATH IRGKCSVALINSTESVLYLDEKDTVFSLVDPBSLKTLLADKG EIRVGPYQADIPENLLGTEFCVFAVL
5737	150	1209	PVIMPLHFSQDVFPSCTVSSSPKLRNNAHSALESYRPTDLS REDTGCNLQHSIDRENIDLNKMFNPSDHPRASTIFLSKQSDTV REKRKSLFINHPPQIARKYSSCSTIFLDSTVSQPHLKTYIX CVALLIYTHIKNDPQGRMLLDIFDENHPLSKSEVPDPYDKHN PBQKIYRFRVTLFSAQLTABCAIVTLVYLERLLTYAEIDICP ANWERIVLGAILLASKVWDDQAVNVVDYQILKDIITVEDANLE RQFLELLQFNINVPSSVYAKYFDLSLSLABANNLSFLEPLSRE RAHLEAISRLCEDKYDTRRSARKKSASADNLTLPNPSAITS
5738	148	653	CACAEQPARAEVGAARTALFVRASGSMFSGSLAVFLAVLLL WGAPWTHGRKSNRVITDENMRELLSGDWMEFYAPWCPACQNT QPFWSFABWBGDLVNLAKVDVTEQFSLSGRFTITALTPTIYHC KDOEPRKQOPTKKFINTIADEKNEIFPWSNF
5739	3	631	SIPMAESEVAKLEKHLMLRCEVVLQKLEKREKALLAKQ ANKSSRSFISRLLAIVADLYEQGYSDLKIKVGRHISAQKF VLAARSDWSLANLSTKELDSDANPEVTMTMLRWITDELEF REDDVFLTELMLKANRFQQLLRERCEKGVMSLVNVRNCRFYQ TABELNASTLMNYCAEIIASHNVSEVEGVNHAL
5740	3	631	SWPMAESEVAKLEKHLMLRCEVVLQKLEKREKALLAKQ ANKSSRSFISRLLAIVADLYEQGYSDLKIKVGRHISAQKF VLAARSDWSLANLSTKELDSDANPEVTMTMLRWITDELEF REDDVFLTELMLKANRFQQLLRERCEKGVMSLVNVRNCRFYQ TABELNASTLMNYCAEIIASHNVSEVEGVNHAL
5741	141	960	PLTLFSSRARAGHTNNTSPGVGSDPVILATQGYDHTVFNQA HSGICTRTVQHQSQVNALEVTDPDRSMAAAVQVSLQYQHIRM YDLNSNPNPFIISYDVGNMNIASVGHSDGRNMYTGGECDTARI WDLRSNLQCORIFQVNAIPNVCCLPQNAELVGDGSGAIIHW DLKTDHNEQLIPPEVSIITSAHIDPDASVMAAVNSTLVFSCLL PLAIGTLQGEFESLARGLLFLACQNGCYVWNLTGIGDEVYQ LIPKTKIP
5742	141	960	PLTLFSSRARAGHTNNTSPGVGSDPVILATQGYDHTVFNQA HSGICTRTVQHQSQVNALEVTDPDRSMAAAVQVSLQYQHIRM YDLNSNPNPFIISYDVGNMNIASVGHSDGRNMYTGGECDTARI WDLRSNLQCORIFQVNAIPNVCCLPQNAELVGDGSGAIIHW DLKTDHNEQLIPPEVSIITSAHIDPDASVMAAVNSTLVFSCLL PLAIGTLQGEFESLARGLLFLACQNGCYVWNLTGIGDEVYQ LIPKTKIP
5743	1	412	MHSTQDKSLHLEGDPNPSAAPTSTCAPKMPKRTISIKQLASVK ALRKCSDLKALATTALLFNSSSDSGKLGAIAKDLQTFRN FAEQETKPKYREISLSDHENTENKLDPEFNILLISITVNSDL LGNIR
5744	95	1343	EPKARECACRVLRSFSSPNKASSFALQASGGPLPAVRLERD RQKSTVQYGMSEVBOQHARLKELFDSITDTGSGSLQGBLT DLCHMLSLSEVAPVQLQTLQONLGRVHPQFKALLLSRT LSNEHPQEPDCLSLAQKPYRGKRGYGRSLPEFQESVEETFE VTVLEPLDEBARPSHIGADCSBHKRTORSREYARQQRLPNP DDLNASQSGSSPQDNIIEKKLQVCKDLGITHGHNRKKLVSI

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			CBQYGLQNVGEMLEEVFHINLDPPGINSVEDFFYGLFRNGKSLT PSASTPYRLKRLHSMQSFDESGRRRTTSSAMTSTIGFRVPSCL DDGMHASVERILDITWREGIENSQREILKALDPLDGNINLTEL TLALENELLVTKNSIHQACI
6745	1	588	TFRDQGWAGRRKRLGCSMESWEAALAGPLFSSTARQNNP AAGTECPAAVWARGTAMGSVLSTDSGKSPASAPATARALERRRP ELPVSFDCAVCLSEVLIHPVTRCHVFCRSCIATSLKNNKWT PYCARVLSBGVPATDVAKRMKSEYKNCACEDTLVCLSEHRAHI RTCKYVIDKYGLQLQESRTA
6746	110	492	GATGAMAESAARHKKRRKSTPLTSSTLPSQATEKSSVFQTHY SLWTVAAIQAVEKKHMSQARLQSLBORTTAKKGLADCEKMA VEFGNQLBEGKNAVLGTLQLQYGLQRLLENVNLNRN
6747	247	484	EAVTFKDVAVVFTSEELGLDLAQRKLYRDVULENFRNLISVGH QPFRHDTFHLREKKFNMDIATQREGNSVYAGVC
6748	201	665	MTTFKAVITFDVAVVFTSEELGLDLAQRKLYRDVULENFRNL LSVGNQPFHQDTFHLGKEKFNWKMKTTSQREGNSGGKIQEMET VPEAGPHEWSQCIWEQIASDLTRQNSIRNSSQTFKEQDVPVC QIEARLSISXVQKXPYRCNECKQ
6749	95	719	RREYKGGDGVCFRARGSPQSGQFFPSCAGGEGQLQSGEALDGM SAGGQPCPAAGGCGPGGASCSVGAAGVSNFRMLEVLEKEPDKAF VVDLLLEIDTDPQADITYSRQKTSLSLSCFAQLCKHAGQSVSQ TSHKLKALQVDSKSELTETQAKSVLEKSVHQLQLQHSISQLQL HAKTGQSDSTIKAKLSQSPSVEELRELSAK
6750	3	428	SCSESRFGAKWASGALPRDTTGLSEQPSSEVAQSNRAWTGT TAPGPIHILLELQDLMEFLCNMNDLVMLEEIQEAEERMFTR EFSKEPELMPKTPSQKNNRRKRRISVQDNNRDPIRRLLRRKS RSSQLSSRR
6751	152	1417	PTKATEMGASVAVVVRFPNSSEKSRSEKCIQMSGSTTTIV NPKQPKETPKSFSFDYSNHSITSPEDINYSKQGVYRDIGEML CHAFEGYVNCI FAYGQTGAGKSYTMQKQEKDQGGIIPQLCEDL FSRINDTNDNMSYSEVSYMEICYERVDLLNPKHKNLRVRE HPLGYPVEDLSKLAVTSYNDIQDLMSGKNARTVAATNNNETS SRSHAVNII FTQKRHDAETNITTEKVSKISLDLAGSERADST GAGKTRLEBGMINKSLITLQKVISALAEKDSGGNNKNNKKKTD FPPVRSVLFVWLEENLQGNSTKNTVAALSVADINDETSLSTR YADRAKQICRMAVNEEDNPKILRELKDEVTRELLDLVAGLGD ITDMNALVCMSPSSSLGALSRRNV
6752	24	1834	RNCVPLFCYSESVKHSIDIKQVSHHCHILLERLAKQREAGPL CDCTIYVIGEPQKAHNRVLASVEYFGAIVRSTENRNVLDQSG VKADGFKLLEPIYGTNLNDSNVKIEHQADYLVKEEVVTKC KIKMDFAPLAINPSSSTETSSITGNIEINQOCTLLTRIDYNNRKK SEVSTDLIQANPKQALAKKSKTKKKKKAHNSPKTGKNTQVY PSDILENASVELFLDANKLPTPVQVQAQINDNSELELTSVVEN TPPAQOIVHTVTVKRGKSGQNCALKEHSMNLSASVSPYEA NSGEELDQRYSKAKPMKNTQKVFSRASSLRHMRILKGVKPYV CHLCKAFTQCNQLKTHVTHTGKPKYKCLDKGFAQKQCLVF HSRMEHGERKPKYCDVNLQFATSSNLCIHRKHSGEKPYVCDR CQKPAQASTLYHVRHRTGEKPYVCDTCGKAFVSSSLITHSR KHTGKPPICELGONS YTDINKLKKHKKHSGADKTLDSASD HTLSQSDIQKSFLESIMVKE SDMTPLALPLGTEDHMLLPV TDTGSPSTDLREFTVWYSEFQIFPAQLY
6753	2	1305	VFSLPPVPPQKVVAHTEFTTSSDSSTANGAKKDPVNVQDEEKA PPGILKLRRTNYSILFNCDQQAQKQKRRHSSTGDSADAGPAAQ SARGHKEMEGVALKIGPLSPQERKQAPSTRDSAPSSSSRSVPV AHPGPPFPASSQTPAPEHDKAANKMLAQKPLAPKPTSTPPAS

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			PISKLSRPYLVELLSRRAGRPDPSPSPSKEDQSSDRRFPSPFP GPEERKQGRDESEATERKSPAPLPATQOEKPSQTPBAGRKE KPHLSRHSIDSKLTKVSTAQPLWITLAIQKQKGFREQQATR EERKQAREAKQAEKLSKENVSVSVQSSSVSRAGSLHKSTALP EKKRPSTAVSRLEERDQLKANTLPSTVYVVISSSPAAPLVKE VSKRFPSSDDAPYSSEPAWALAKRKNANSDCLIK
6754	2	413	FVRRRRRLGGPEVNTNSSLHKSRIADPQVLKPSIALAKRE LSFGICPEGGIRCLCKWILILNYLPERASWTSTIAKQRLVYQ FLREMIQPGIANKANMGVSRVDVTFEDHPNPNPDSRWNTYFKD NEVLL
6755	298	1343	PQLQLQVALEADWFLDMPGCRGKPSQQLESALPGLQTVGGG CNCOTGLRNRNGSAIGLPVPITLITPGVRHQIPDLPVCGS LLFSLFFPIYLLVALFIQYINIKTYVMVYNHNPASCTSLNFHL IDYHLAAFITVMLARRLVNALISEATKAGASIMHYMVLISARI VILITLQGVLCVNLVLFPSHVLNLLFLGYPFGVVPVLCCTHQ DSRAHLLLDYNYVVOHEAVESASTVOGLAKSDPLSILLES LEQFNHATPIPTHSCLPSDLIRNEVECLADFNHRIKEVFNLS LPSAYVAFPLCPVKSQVGLFFMCFPLDCLVNIINWVIL
6756	180	754	TEALSGSLSTPVSWSLWIKYQQLPRLVLLCTIRVQCHD LRLSQPQPOLQSPCLVQLQQAATFPLADCTKELLILTE REAQRKKRKEKESQWALTCQLFFRDVAIISPSBSEHDPVQ KALYWDVNLNRYNLVFLGHONFALEVKICRPVLYFLCCLSHW PPHYLTETTEALLTHK
6757	2	459	NSRVEAPEHRSRQSSDANRKHLSWWILATVCMFLPSHLSAQ TRGIKHRIKWNKALPSTAQITEAQVAENRPGAPIKQRKLDID FGAEGNRYENNYWQPDGIDHNGCSSEANTKRAFTGICINATQ AANQORQPKFDNKLHQGVILW
6758	1	1008	ASQPFLPQRFRDRAPLPAFLRLKGLVAVVSLSAIGPSPFCRR RVPSLAQLGHSAAAPSDDVNRVSRVDRCEPERDRAMPFPFPPS LPSPFRNMANNPALTGNSQHQHCAAAAAAQOQQCGGGATK PAVSKQGNVLPWMONEKTMNLNFMILNLLSSPYFKVGLYELK THRYVVIDEYFKTVHVPWEKGRKTAQTMCGGVGVGVGTGIG VSTAFCLLYKLFTLIRKQVWGLITHTSPSPYTRALGPMYIRYT QPTDLNDWFPESFLDEEDLVKAGQCCVMTGENRLSPHTYLE WSTLFRPDPVVKQNDIQQIKTRPRK
6759	1	513	RKINFLISLDGTSRAFHQTGLPLLSGSPVQRKTQSCDFLDSS LIHLKSPSSSRPRCLNIDDDPDIHSKPLSSAPPITSLSSLLG NFBESVLYNTRFDPLGIVDGTAKVQASGAFPCPHTLTPVEVSPY SVSDNAPSPYMGVITLESIGKQRYRVPSPGQITQVVCVL
6760	239	606	VLSKKGISAREKRTMMETFSPTKDYVFLDKLEKAPKEKGTIT AMSVKREVLQSLVDQDMDVCIERTGTSNYNAPFSPKALHARKHGLE VLESQLESGSGQIASLQKSIKKAKIGRCFTBERT
6761	29	1733	ERTLRLGLEVAAPSDVADAASRRGRCCCLHCTQVQAQCCPS SSSVORCELSLPQSLHTMTSKKLVNSVAGCADDALAGIVACNP NIQLTQGRHVALRSDLSLGRVALSGGGSGGSEPAHAGFIGKG MLTGVLAGAVFTSPAVGSLIAJARAQAGTGVGLLIVENYTD RLNPGLARQARAGGIPVEMVVGDDSAFTVLKKGAGRGLOGIT LIIHAGALAEAGVLEELAKQNYVVTNRMTTGVSLSSCSGVP SKPTTFLSADSVRLGLGITHGAPRNRKATDSVLMGLHRT NTNASHVVPVQSSVWVNNAGLSLEGLIAATVSLBLC RGVKIARLVGTFFSALEMPGISITLLVDEPLLLIDAEETRA AWPNVAVVISITGRKRSVAPAEPOEAPDSTAAGGSAKEMALV BRVCTSLGLLEEHNALDRAGDGCCTHSSRAARAIQEWIKSG PPPASPAQLLSKLVLLKMGSGSGALYGLFTAAQQLKAKT SLPAWSAAMDAGLRAMQKYGAAPGDRTLVGLSLNNAQOEL

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6762	3	613	ASTISWRLCVAGAAARRPVPVAGERAGGGMWFMVLLSWLDFI QVAFITLAVAAGLYLAELIEEYTVATSRILKMYWFSSTAVLIG LYVFERFPTSMIGVGLFTNLVYFGLLQTPFIMLTSFNPILSCG LUVVNHVLAQPQFAREYYPFSKVLAVFTFCLWLIIPFAFFVLSGA GENVLPSMTQPGDDVVSXVETEGKRGK
6763	2	760	SGPDPGRFRGCCVRFPAGAGMELGGHMDNSAPRLVSETAE RKQEQKTGTDBAASDAGVARRFLCLYLGGFLDLFGVSMVVP LLSLHVXSLGASPTVAGIVSSSYGLQLFSSFTLVQWSDVVGRR SELLACILLSAIYLLGAAATNVLFLARVAPVAFKHTLSISR ALLSDVVPKEHPLVIGHWASQVVLQVVPVGYLTELGGF YLVAFTICLVFLIMAGLWFFPRERAKPGST
6764	80	438	LKTHDVLVSVNLFEQLVRRVETLSSEVSEVQIQLAKDFEDFR KQKQRTDHELKGYKDLIMKAETBRSALDKLKHANQVQVDEIKR RQPAEDCEKLERQIQLREMLMCDTSSGIQ
6765	3	550	ARYSRVDFHCRRCRAVARAPFLQFPFSRSHFLAACVARM LRGVLSVSEALSGAMDGVTEVAVGVKGGSDLLSGSVLSFSPNS NMSMVVTANGNDKPKPKGRDKMGAPSRVLRKLPGEVTETE VIALGLPFQKVTNLLMLKGNQAFLELATEAATNGNYISAVT PHLENG
6766	1	1287	EGGSFKASLTWNLPLGEMKLHCEVEISRHLPALGLNRGKGV RAVSLCQQTSSQPPVRAFLILSTLKDKRGTRYELRENIEQFTF KVDGSKATVRLKEFPVDICLSKANSSELRGFLSAMKLHRCN VDPVSTLTLPVKTSEFEMFKKVITSKDDPLKSNPFLSEHL QTSYCGVLVVDVRLCLSLKRLDSNHHKKLPATIGDLHLQ ELNLDNDALESFVALCHSTLOKLSWGLDLSNKKIKALPVQFCQ LQELKNKLNDLNLQFPCKIGQLINLRFLSAARKNLPPLDSEF RNLSEVLDLFGNTFEQPKVLPVILQAPLTLLESSARTILHNR IPYGSIIIPFHLQDLDLAKI CVCGRFLNSF IQGTTTNNLHVS AINTVLVDNLGTEAPIISYFCSLGGVNSSDI
6767	336	919	APHILCCLSSLLQFRYKAPLRDRGLQIGYCSVDDPRMKHPLMV GRQSDSNZYKDFAKRSQFSSSTQDQPLQAKRQQLASDVHY RQPLPQPTCDPEULGRHAQKAHQQLSDVRYKSDINLIRGVGHT PGGYKVBWARRAAELANARGLGQAGYKGAEVAEGADHQSGSE NPDATILLHVKKKALL
6768	2	363	FGSTVSCVLLSSGLFCQVACGEGHIDPMTKLRSAPFKTE LRLSPDLGSCPCCGCPPIKPAARGRSGDQWGSDEKILQAV ENNDAPRYAALARKGLVPTKLDPGKSAFHL
6769	284	396	MSPTDFSTAEINQELANKVSLKARLPLMLQMGQAD
6770	1	397	QRNYQVINGSTNAKLHLYDYKDEVVKKMTFNPNSWQVPRVEK ITLNMGVGEIADEKLLDNAADLAASQOKPLITKARKSVAGF KIRQGYPIGCKVTLRGERMWEFFERLITAVPRIRDPLGSAKS
6771	3	378	APAGTLAMTGKSVKVDVRYQAVLANLLSREBFCADQCSKGR WASHNIGVPICIRGAIHRNLGVHLSRVKSVNLDQWTQSQIQCM QEMNGKANRLYAYLPFTFRPPQIDIPFLWNSLGG
6772	1	1400	AAAPLQGMVTANGFINTVITSLKRRYDLHSYQGLIASSYDIAL CLCLTFVSYPGSGHKKRPWLGRVLMGTGSLVFLPHEPTAG P**GWKLDAGVKTCPANPR\ PFCAG\HTSGSRQVFLMLQFQL HGVGATPLTYTGVTYLDREVSSCPYIATFPTAALGPAAGY LIGKLLMITYENGRRETLTETSLPWVGVWVGFSSGAAAFPT AVTILQYFQGLPGSORVYANWAMHMLKDSRSGASBDDHCT IIRDLPLIMILLKNPTYILLCAQATAEATLTCMSFTSPKFLBS QFSLASAKAATLPGLVVPVAGGGTFLGGFPVNLRLGSAVIK PCLFCTVSVSLGILVPSLHCPSPVPMAGVTASYGSLLPBQHLNL TAFONACSCQPHYSFVCGSDGLMYPFLCLAGCPAETINTVDG QKRVDRDCSIPQLNSGGFGHATAGCTST

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *-Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
6773	1	630	PWEAPKGRHYKAEHTVLTVTGSPCFHPFVHQRLVHKCTHKG RPGQWPWCATTNFDQDQWGYCLEPKKVKDCHSKSPCKQGGT CVMPSPGFHCLCPQHLTGNECQKEKCFEPQLRPFHKNRIWYT EQAAVARCQCKGPDHACQRLASQACRTNPLGRCRLEVBGHRLL CHCPVGYTGPFCDVGE*GSGASRRPAPRWGLAR
6774	146	389	LTLSDDQQYFLPFLILSS/WVPFLMSDVGVRKADSFSKIISS GLRIGFLTGPKPLIERVILHICVSTLHPSFTNQLNISQ
6775	104	614	TCFQQLRVLDKGRGAPSPCLWLVLLALIEKWRSHRILMNS GQPTMEHLDAVYTFPGSEVAVVTDGAFIKIPCKRQGLVHRT HSSCRVKKPSRIVDVGKVVWVLGRHNRIRVLSLKVNVN QQTGKDLPRNVVLSLKKRGGDPRIITLGRSLE
6776	3	1108	HERHERHEGALSQDALLSTIPDLSMMTEKCRPFHPCQLLH LMTGTPNTSDADMEPCVDGVVDRISFSSTVITMDLVCDOSL TSVAXFPMAGNMGVGLGGHLSRFRGRVLRMCYLQVAIVGT CAALAPTFLIYCSLRFSLGDAAMSLITIMLIAWATHRPOAM GITLWCPGSIAPNTLAGLAFARIDWHILQLVVSVPFYVPLTS SWLLESARWLIINKPEEGLKELKAKHRSRGMNARDTLTEIL KSTMKELEAAQKKKFLGERLHNPICKISLLPFTKFANFVA YFGLNLHG/LKHLGNVFLIQLTLPNAV/TPQQLVLHGHMGSG RVSSRGVNCGLGLPVLQVN
6777	779	63	CFPHGPAWEDCBVATFAKQCSGSIISCIAPSPACPLYACGSY GSLSLYAWDDSPILALQGGGQIITLCPHFGNRRFFSGARQD AELLQWDLRQSGYPLMSGRVTVTRVYFDLDTGQYPLVSGST SGAVSVMDTDGPNDCGKPEPVLSFLPQKDCNTQVSLHPSLLG HCLPVSVCFLSPITSGSGRRRGAGPSLGSPPRVLELCRLQLWAC GGGARLQHP**SPRARKGR
6778	311	805	IQSITDSRSGSIRKNDPANTRLRNVPLETAQDSE/ERSPEE VQADPRIRASPKCTSPSPFPKGRSPGEGET\DEPKVHFHFGP KDKSVAEKN\KSP\SPVSSGQIKDFPSMKDEWENLQNSVRRME T\AVRLNEVIVKSRDAKLVLANMGPPPRNRNGDENY
6779	2	535	RALERQPELLAANGIEPESNATSEPTIGSKRFPCKNKEALALPK MAKCAWKGPREPQQLARADASPGGASEDDQGGHSEPPKKKAV AKVSAKNPAPHRKKKKVSLSPVSYLVLDSEGRKKFVMPKKGPG SREASDQVAPRGGQQAETASTSRGPKAPKPGSPRRATNBSRR V
6780	3	403	HEVMDNKKDEINILMSPOKEELSYIPEGDFDTFVALVAVQDQK SGLNGHIVCKLHGHRGFKLQKTYENNYLLTNATLDREKRSYGS LTVIARDRGTPLSLTVKHPTVQINDINDNPPHQRSEYFVISE K
6781	1	1269	APTRPVFTLQDLSSSKPSPNSLNLPSHEMLCSSLVAPLSEVS SNVAPSIPVMSRPVSSSSISTPLDPNQITVFVTSNPIITSANT SAALPTLQSAIMSTVIVMPNAGSKVMVSEGGQAAQGNARPQPI TPVFINSSSIIVMGSGSPSTIPAALPTINSGLMPPSVAVVOPL HIDPNIKPSAPVPFPAIASSSPAPNIQTGRELVLSRATPVQPL SPCTISSIVVSHPTVQVVKELNPDEADPQVNTSADQNTLPSSQ STIMVSPLLTNSPGSSGNRRSPVSSSKRGKGVKIDGQILLTKAC KNVYSLBKREQGADGETEGGQLDITAPGLMWTGELTSLDS KTPTPAPTLKMSVSPVPTASAGPSLPGCALPTSVRSIVIT LVPSSELISAVPTIKSNMGHIGASISLAG
6782	3	1327	RKPTVIRIPAKFGKCLHEDPQSPPIIPARPIGNTFTSVSGSKLS NVERTANLESNHPQGTGPFVRVPPRLPPEVVGKTIIPCOPTPK VPPERPPPPKLSATRRSNKKLPFNRSSSDMDLKKQSNLATGLS KAKSQVFKNGDPVLPFRPKPGHPLYSKYMLSVPHOIANEDIVSQ NPGELSKCRGDVLMWLKQNTENNYLCEQKGEDTGRVHLSCMKLIT PLDEHLRSRPNFSPPKAPSHAQKPVDSGAPHAVVLEHDPARQV

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			EVILWGS*DS*GYPKGR*ILPKEVSR/RVLLSGLTPIIDATQF\FTELDLSK\YVTITMCAVANGKPMILCVIHKPFSEYTAMAMVDGGS NVKARSSYNEKTPRIVVSRSHSGMVQVALQTFPGNQTTIIPAGG AGTKVIALLDVDPKSKQEKADLYIHVITYIKKNDICAGNAILKALG QHMTLSGEEISTYSGDGIQGLLASIRHGHQALVRKLPLEKT QHK
6789	2	678	QNGINVLKIAPEEALKEFATQIKRLV**FEDS*QF/YERLVA GSLGATAQSSYTPMVLKTRVALRKTQYSGMWDCAIRLLARE GVAAFTYKGYVFNMLGIIIPYAGIDLAVYETLQNAMLQHYVANSAD PGVFVLLACGTSMSTCCQLASYPLAVRTRQAQASIGAPFVT MSSLFKHLRTFEGAFGLYRLAPNFMKVIPAIVSISVYVYENLKI TLGQGR
6790		4068	APPAGRRRMOAARAGCGAALLMTVSSCLCRAMTAPTSQKCD EPLVSGLPFHAFSSSSSSISGYSYGPYAKINKRGAGGSSPDSDD HYQMLQVDFPNRQKISALATQGRYSSSDWVQYRMLYSDTGRNW KPYHQDGNIAWPGNINSDGVVRHELQHPILARVVRVPLDWNQ EGRIGRLAIEVYGCYSWADVINFDGHVVLFPYFRNKMKKTKLQDVI ALNFKTSESEGVILHGEQQQDYITTELEKAKVLVSLNLSGNQL QPTIGHTSVMISGLLDDHHHSVVLIERQGRSINLTLDORMQHFR TWQSPDLDLYETFGPLPFGKPSGSSSRKQFQKGMESINHYNG WHITDLARRKKLEPNNVGNLSPSCVETPTTYPFHATSYLEVNG RINQDLPSVSPQFTTNWPNGLLVPSHEADLGNVEIDCTESKVG WHINITOTMSQIDISSGSLNDGQKHEVFLAKENFAILTIDG DEASAVRTNSPLQVKTKGEKYFGGFLNQMNSSSHSVLQSPQGC MQLIQVDDQLVRLYEVAQRKPGSFANVSDMCAIIDRCVFNHCE HGGKSCQTWDSFKCTCDETYGSGATCHNSIYEPSCEAYKHLGQT SHYVWIDPDGSOPLGLPKVYCHMTEDKVITIVSHDLQMQTFVVG YNPEKYSVTQLVYSASMDQISAITDAEYCEQYVSVFCMSRLLL NTPDGSFYTNVVGKANEKHYWGGSGFGIKCAQCIERNCTDPK YYCNCADYQKWRKDAQFLSYKDHLPVSQVYVGDTRQGSZAKL SVGPLRCQGDNRNYWMAASFNNPSSYLHFSFTPOGETSADISFYFK TITPWQVFLNMGKEDEFLKLEKSA*FVSFSPVONGVBIIVVR STPTINDQKHRTAERWQASLQVDELPQKIREKAFTEGHTRL ELYSCLFVQGGQGGQGLGICSLRWNVLTLDLEAKVPSGFI SGCSGHCTS YGTCNKGGKCLERYHOYSCCSNTAYDQTCZHD VGAFEBEONMLRYNFPQAPATNADSSSRVONAPDQNSHEDLAQ EBIIRFSTTAKPCILLYISSPTTDPLAVLVKPTGSLQIRYVNLG GTRSPYNIDVHRNNANOQPHSVIITRHEKTFKLKLDHYFVSUY HLPSSSDTLFNSPKSLFLGKVITETGKIDBIKHVNTPGFTGCLS RVQFNQIAPLKAALRQTNASAHVHQIGELVESNCGASPLTSPH SSATDEPHLHDLSASADFPYNPQGGQAIIRGVNVRNSAIIGGVI AVVITPTELCPT(VLP*SR*HVSPKHOTLPINERKAGAGSRQK KPGRRFSNMNNDPPTSQRPIDESKIEWPLRGGVYLANG
6791	1801	1193	THGEGAKRGKDGKDLGPRGREGQHGPKGEGYPTGPPEL/PGW SAVV*SWLTAATKVOAILLPQFLF*ILGLQIAFVASIATHPNQ NSGIISSVETMIGNFFDVMTRFGAPQSVQVFTPSMNMHEDV REVTVLMNKWTVFMSITYERKSDPTSSNDVLKLGAKDEWV LRMGQALHDDHQRPFTAGFLLEFK
6792	33	1073	VRIHNNQVDMLFSLGSESPKAGTHVSTETKILAVERKVLV PPLMNRFTSNQGFDFSCCLASYGSDKVLMTFENLAWGRCLCAV CPSPTTIVTSGTSTVVCVWELSMTEKGRGRGLRLQALYHTQAV TCLAASVFTSLLVSGSDQCTCILMDLHLVHVTPLPAHREGISA ITISDVSGTIVSCAGHLSLNMVNOQPLASITTAMGPEGATCC CILMEGPAMDTSQIIITISQDQMVVVKT/VGCEVUCSWTASRRG APGSASKPRPQVGEHPEGLSRAQ*HCFDRAQDQNPVPTAL AVSRNHTKLLVGDGRGRIFCWSADG*EERGSRGSTVTPG

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6793	2340	805	GRKEANY\YGSLTQAGTVSLGIDAEQGEVVFSSAVLFWAFND LVFPGWDISSINLAEMRRRAKVLMDWGLQGLMPEALRPRPSV YIPEFPAARQSARAONLIPGSAQQLEQIRDIRDRSSAGLDX VIVLWTAETRFCEVIFPGLMDTANLLRTISLGLSVSPSTLFAV ASILGSCATLMSQMTLVGALIELAKWHEVTVSGDFKSGGQTK VKSVLWDFLIGSLGKTMISIVS\HGLQNDGEMLSAPLQFSKEV SKMSVDDMVQSNFVLTPOEHPDHCVVITYVYVQGSKRALDE YTSRLMLGGTNTLVHNTCEDSLAAPIMLDLALLTELQORVSE CTMDMEPOTFHPVLSSLLSFKAPLVPPGSPVNALPQRQSCI ENILRACVGLFPQNMHLEHMERPGPSLKRVPVAAITYPLMK KGPVPAATNGCTGDANGHLQSEPPMPTT*GPGHTVSRLLFPAAP HDPTLKAPTNGKRCFSPSTVGSGL
6794	169	1349	DVVRKPKPESAH*EKFGPPSPGVRGGSERAGQSGHSGSCR\ EPAPAPAPPEDHPDEMGFTIDIKSFLPKQKTYQRCLFVGL NLPDTITEEDFKRLFERYGEFSEVFINRDGFGFIRLSESTLAE IAKALEOGTITLKSRPLRINFATHGAALIVKNSPVVSNELLEQA FSGQFPVAGVAVVDDRGATSEGFVEFAAKPAPKALMERCGDG APILLTTPREVIIVPMHGFDDDLQPELMQKTCQTQTHREGEPP RPAQGTTFEYASRKKALDEHMQQRTVFNIRNREKELGAE MGAARHEHQMLMWDQGLRQELRLLELRLNQLQKQKIQLR HEEHRREREEMIRHREQELRQEQGPKNNVENVVCHPL
6795	1740	1010	GFRRQTVGRDHELDSF*DNAAQETDCANGSERI*KGVLNENFS TMSKSAVKISLDLLSNLFCQDQLLNVTALDTAMKRMDFNQ KEVNIQITQTVIEPLKQFGSVFSSLMNVKRRQALQDYRLQJAK VEKYEEKKTGPVLAKLHQAREELRFPVREDFRANKQLLEMPR FYGSLDYFQPSFESLIQAQVYSEMHKIPGLDSHQDQPGHS DEQKERENKALSRLALSIVADD
6796	48	683	GKEIQITIKLAWLLEGLE*FVGLGKGVVSP*SHVALGQGLW LTRAVRSMRWELCVSAQEVVSQRSA*SSPSVGAACPSLNPET SVQEGRDQWR*LPRLFSALVQGCWQGPAPPERCV*PGRCKW HLQSQVLR*RRRECKCLPFA*GRRRIHQRLGLGIPAPLIGST SPHPGNSQCKR*QWAEILLFSSVIT*GLGIC*
6797	1620	211	TKRWFPQPTPGSSCTPSSSLWTS*TKLCTCWNAGMKXVGVV TLGFMKQQLLSASOTTETMTWRTTTLTLIRWLLTSGVDFP ERPPPPPSSDILLLESSSSYKIL/DAQIPD/DMSGPTTSG*RP LTRASSIMRSTRATIPAS*SRLLTKH*VGGSPSAWRPRPTSSR VSTFPVSSSTTTTAGSCLTWSSSPAPCPSSSPAPHSFASOCK TSLWGSQGSQSGSGSACSGSNWLSMAGTSCSSPANCSPSRAPS* RSASRFRTRWATTSAASSWAPRRCWGWA*SAT*PSSTTTISS PHCWFCPCASCAAAHLSSTWATASVAGSCWGPIM*SSAHS PW CLSACSRSSSMGTCL*RSPP\SGASRAAAACWGSSPSSTTFPS AGSSTWCSASSRSSPAPTPPSSIPAPQQRASRCRPTSHSART APPPASGAARAPAFSSAAEGTPRRSIRCW
6798	3894	1696	STISWESLSWLNKATNPSNRQEDWEYIIGFCDOINKELEG*VS ALWQGLGSGLGRGTIMAREGQPGSPRLSALBCLVLLVPO\QPIA VRLLAHLQSPQWRHQAITYLQDRVSEKVKTKVIELLYSWTM ALPHEAKIKDAHMLKQGLVQSDPPTPVDETLPSPPFPKPN VFDDERESKLAKLXSKPNDDLQSANLXKSWHREERARTQV TKRLATLEWNNVRLLSMLLYHQEDSSDGRLEMKELPDQC ENKIKTFLKIASRTFMDNLSGLDILQASDNLSRVINSYKTIIEG QVINGEVATLITLPSSEGNSSQCSNQGLTLDLAELETTTSLSVLA PAPTPPSSSGIPLPPPPQASGPPRRSSSSQREATLPGSSSTNAL SWLDKELLCLGLADPAPNPVPKESAGNSQWHLQREQSLDFFS PRPOTACGASDAPLQGSAPSSSSSQAPLPPFPAPVVPASVP APSAGSLFSTGVAPALAPKVPVAVPGHGLALGNSALHDLAL DQLLEAKVTSGLVKPTTSLIPTTTTPARPLPFSTPGSPLFQ

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6799	3894	1696	PLSPQSGSPPRGPELSLASIHVPLESIKPSALPVTAYDKNGF RILFHFAKECCPPGRPDVLVVVSMINTAPLVKSIIVLQAAVPS MKVKLQPPSGTELSPPSPPIQPPAATQVMLLANPLAEKVLRYK LTFALGQLSTEVGEVDQFPFVGEQWNL STISWESLESWLNKATNPNSRQEDWEYITIGFDCINKELEG*VS ALWQGLRSGSLGRITPMARGGQPSRPSALCEVLLVPOFOLA VRLLAHQSGSPQWBAONATTLQDRSEKVKTEVLLIYWTM ALDEKAKTKDAYIMLKROQIVQSCPPIPVDTLIPSPPPPKNP VPDDRKSLLAKLLKSNPDQLOEANKLIXMWDEARAIQKV TKRIHLEEVNNVRLSEMLLHYSGEDSDGRMLKFLDQC ENKRTLPLKLASETDNDNSLQDILQASDNLGRVINSYKTIIBG QVINGEVATLTPDSRONSQCSNQGTLLDLAELCTTNSISVLA PAPTPPSSGIPILPPPQASGPPSRSSQAEATLPQSPSTSNAL SWLDELLCLGLADAPNVPKESAGNSQWHLQREQSDLDFFS PRPGTACQASDAPLQPSAPSSSSQAPLPVPPFAPVVPASVP APSGSSILFTGVAPALAPKVEPAVGHGHLALGNSALHLLDAL DQLLEBAKVTSLVKPTTSLPIPTTTPARPLPFTSGPGSLPQ PLSPQSGSPPRGPELSLASIHVPLESIKPSALPVTAYDKNGF RILFHFAKECCPPGRPDVLVVVSMINTAPLVKSIIVLQAAVPS MKVKLQPPSGTELSPPSPPIQPPAATQVMLLANPLAEKVLRYK LTFALGQLSTEVGEVDQFPFVGEQWNL RRSPSTGLSPVPQSSPSLSBYSIPMSLLSGTANATPQKAG *PQAW*LGALAPALFI/GLTRGRKQKEDAEQSGSDVDAGDC SGARYNDNSDDDDSNESKSIWVPPWARIQTEAGTRARARARA RATRARRAVOKRASPNSSDVLSPQELQVLCVMSKPYLLE AALIALGNNAAYAFNRDIIIRDLGGLPIAKILNTRDPIVEKAL IVNNLSVNAENRRLKVMYVQVCDTITSRNSSVQVLAQGLRL TNMTVTNEYQHLANSISDFRFLPSAGNEESTLQVLLKLLNLA NPAMTRELLRAQVPSLG\SLPNKKNKEVILKLLVIFENIND FKWNEEPTQVQFEGSLFFFLKEFOVCADKVLGIESHDFLVK VKVGKFMALAEIMPPKSGE SARSFSPQASVTHVDVDAESFVILVDYCTGRVLSBANVERL YASDMLQLSVVRBACSPFAEREDLTNCTALFKFAPGHRKL RQAGSYTAQFQGLSHWSTIBETLANILLQALLAVLRDLSD VESQVCHVAVQMLEAPKERRGPSAAVTKVRRWHITTEBDQ YLSGLLTKPIVKKYCLDVIGALQMYRGDLYKSLVPPVNSSSS /R*QQQLSCICSRKSTPRTGYVCGQDGLLTPOBSLS\RYDPY SGDIYTPSPPLTSFAHTKIVTSSAVCVSPHDIYLAQRPKDLW VYKPAQNSWQGLADRLCREGMDVAYLNGYIYILGGRDPIGVK LKEVECVSQVQONALVAPVPHSPFSEILVQNYLYAVNSKRM LCYDPHNNMILNCSLKRSDQFACVENDBIYCICDIPWKKVYN PARGENRRISNIPDSETHNYQIVNHIDQKLLITSTTPQNKQR VTVYETDITREDQWINTGLMLGLQFDSGICLCARVYPSCLEPG QSFTIREDDARSSESTWMDLGDSELSSESSSSSPSDSDVWV VAPQNAQDQGGSL ETPLPFFLSKTPGKTASMAHFQGTSMIAAESSTEHKECAE PSTRNLNLSLQKIKCLSKRKEELLEYNQCM*QPSRMSKELYE RKVARKIKLIDANRFLSTRECDPHORDLQALLAVLRDLSD RDLQREKEKSRINAEELHEKSENKLAKEKNTLANKEHYEC EIKRLNKLQDALNICKSFEDCLKSRVFCHEEPTTEMEVLSQ QVQVIEDYEDFKKERSDREPLNQEERLQOINBTSQQLNLSQ IKACQMKKEKIKQKQKMYCPPCKGLVFLHQDPWPTGPGVAG EQREHPDYQWALDQLPDVQHKAN/DWCLAPPPVCCQAG/PR TPGLK*SSCLNWLKPC*NFRFILSKSPSVEVETNRRQQATRE G KLSGRPYRHWGLTQSLKLYDKRTITPTTQPIQXQFYALDN
6800	404	1646	
6801	2	1755	
6802	157	1341	
6803	1	2203	

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6804	1	951	<p>KNIVEMLRDTLSVLCSRNRMTGQPTTIPFISIMLDEODSTLNS SILAALRNKQDGYFGGARVQTGKLSFPLTSCCTHLSFMDGPE OKLYSEDDYDDYDYLESGNWMNDYDSTSHARCDEVARVYLDHLL AHTAPHPKLAPTSQKGLDRFQAQVTTCDLMSLVTKAKELHVQ NVIMYLPFTKLFQASRSPFNLLDSPHPRQENQVPSRVEIHLPRD QSGEVDFKALVGLKLTSSLOEQADILINLYTMKGFDMNTLYN ERSATVRELTLTKVGVGIRHWGLIRYISGILRHKVEVLEDAEAC TDLSSQKHLTVGLPPEPRKETSAPLPYALATQIDAESEDM SIIIVTORIMVYLVAMVMTQGLPAEKPRIRIGLIQVWATELA HSLRCSAKEATEGLMNLSPSAMONLLHILSGKRFQVGR/SVR PTDSNVSPAISIHIEIGAVATKERTGINKLSEIKQVFERRLS ISABSQSPGTSMTSPSSGSPAYDQSSKDSRQGRORRRLDG ALNRVFPVGFYQKMWKVLQKCHGLSVGFPVLPSTTREMTPGEIK FSVHVESVILNVLLRPEYRQLLVAAILVILMLADEIHSIGSII AVRKIVHIANDLFLQEQKTLGP/DDIMLAKDPAGICTLRVYD SAPSGRFGTMYLS/RAA/ATVVOEFLP/HSICAMQ</p>
6805	1539	206	<p>GSPGKEEKAONKESLCMSESSSSSSDEDEETKASMTPTKYN GLEEKRSRLRTTGYSGFSEVAEKRLKLNWSDERLQNSRAKDR KDWSSIQGQPKKTKLFLSDSDTAAASPFPFAFEGVABES LQVVAEESCSFVSEKPPVYVDSKLEETKVEVNDRAJEF7P SSGSNFS*IPILKHLNARLRS*QKSGQSSSVSEPLAFH QEEVRSIKSTSTSTIEVDSVAGLQDQSSER*LASER*CCQXEL KQ* *SARTETS*KSIVSEKSEKSRKRPFKAEKXP*SNSEK QKQKGRHK</p>
6806	272	3794	<p>RQPDLLKYPGKSFVDSVSESSSLLSNLPKPDAGIKARNENQYL VPSVPLRLILDHTAFSTEKSADIVICDERCDSPEVSNQCTQESP IEVHTAEDVPPIAEVHAISEDYDIETENSSSLQQDTREPPA KLCKILDKSQANVTAQKQKPNLLRANSSGLYKCLCEFNISKYPS DLKQHMILKHKRTDSNVCVCKESFSTMMLLBHALHEDDFYI CKYCYKTVIFENLSQHIADTHFSHLVCEQCDVQFSSSSLY LHFQSHSCDEQVLCQFCEHETNDPDLHSHVNVNHAACKLELSD KYNHGKQYSLSSKITTFDKCKNFFVQGVQFSLRLHTNVNHRV ALBTKIFPHVCDGKG7SSMLE/ANGLNSHLSGSLYLCQYV EYSTQGTDLKILHDFKHSADLPHKCDCLMRFGNERILLISLPL VHETT</p> <p>VALCFPNSDPVPMDFVGLCLARLGP7EIVPLTRKDGSGQV GFLGSCGVFLALTDAQCKLPACQTEVAFAFGWPLLSWLVI DGKHLAKVPKDNHPLAQDTGTGTAYIEKTSKEGSTVGQVTVSIR SLLAQCRALTQACGYSEAEITLVNLDKRDAGLHGLVLTVMNR MHVSVPYALMKANPLSWIKVCIFYKARAAVKSZMEWSLLAQ ROQRDVSLSLRLMLIVADGANPWSISSCDAFLNVFQSGRLRFV ICPCASSPEALTVAIRPPDLGGPPPKAVLSWNGLSYGVIRVD TEEKLSVLTVQDVQGVNPGANVCVKGLETPVLCXDEVEGICV SSSATGTAYGILLGITENVFEAVPVTTGGAPIFDRPPTRTGLIG FTGPDHIVPIVGGIKGIMVTVGREHNAIDVUATLAJAEPNKFVY RGRJAVFSVTVLHDDRIVLVAQRPDASSEDSFQNMRSVLQAID SNGQVYVCLVAPANTLPKAPLGGIHSITKQRFLEGTLPFCN VLMCPTECVNLKPKQKQKQFVCHASVNLVAGKRLAQASGR ELAILDESDQARKPLPLANDVQWRAITTPSHPLLLANACTVT STATCVQLHKRAEVAARALKRGLSVGDHALVLYPGCVDLAA FYGCLYCCCPVTVVRPHPNQIGTTLPTVEMIVEVSKACVLT QAVTLRLSKSAAVAADITMTPTLTDIDIPKKIASVFRPPSP DVLAYLDFSYSTGILAGVMSHAATSALCRSILKQCHLYPSRQ IACILDYPCGLGFWALMLCSVYSGHQSVLPPLLESNVSLWLS AVSGYKARVTFCCYSVMENCTKGLGQATGLVLRNKGVNLSCVRKC MVAAERPRIALTQSPSKLPKDLGLPARVSTTFCGRVNVALIC</p>

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *3Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			LQGTAGDPDTTVYVDMRALRRHVRVLRGSPHSLPLMESGKILPGVKVLIHAHTETKGPLDHSGLGEIWWSSPHNATGYTIVYGEALHADHFSARLSFGDTOTIWAROTYGLRFLRTELTDASGGHIDALYVVGSIIDTLELRGMRYPIDTETSVIRAHRSIACCAVFTWNTLLVSVVLELDLQEQDALDLVALVTHVVLSEHYLVGVVVIVDGVIPINSRGEKQRMHLRDGLADQLDPYVAYNM
5807	1444	606	VGHSTVHANTTCFVKCLFSPFVVIVTSPSESHSTVSGGGGVSVFGSPQLQALNKLARRSGIOAALSSRPVGLPVYACSGEPRRLTQQAQVAAFGEHALEHSDQDTWDSLRSPGFCSPSSGCGAESLPPGPGPHAEAGHLGKVCDFLHMQCSPSPSVLPTVEAAPPLEKILSVDSVAVDCAYRTVPKPGPQPGHSLTEGCIKRLSGDLNRPFCGMEVHSGQRELESVVAVGEAMA/LKFPNGANSYCLDRSRFLFLRLFWGLSCPIQVQ
5808	2063	737	GVGSGAASALARSRLPLASRLSRERTRAPASCAQRIANDLRMLSRELSLYLEHGVVGVFGSGVGLSLILGFSVAYFYLLSSIAKKPOLVTGSGSFSRFLQDHCVPVTTTYPTVMNCGOQTLLRPF/ITSKPPVQYRNELIKTDAGGQISLDFDNDNSTCYMDASTRPTILLLPLGTGTSKESYLHMHLSSELYGRVCFVFNIRGAVAGENLLTPRTYCCANTEOLETVIHVHSLYSPAFFLAAGVSGMGMLLNNYLGRKSGKTYLMAAAFTSGVQWNTFACSSSLEKPLWLLFNYYLITCLOSGVNHKRMVAVQVQDGVHMAKSLSEJEDVSNVFGYQTIIDYTTDASPRLKSGVGLPVLCLMSVDVSPSBAIETETAKQPHVALVLTSYGGHIGPLBGIWPGQSTYMDRVFKQFVQAMVEIGHKLS
5809	939	65	DYSQGVPTVEHGNLTLYTFAQTHPEQPGSEASTQPIAGTQTVQPTDAAQTDSQPLHPSDPTKEQKQPRHLVSNIPFRFRDPLDRQMGQFGKILDVETIINERGSKGFGVFTTSSDADRAREKLNGITVEGRKIEVNNATARVMNKTGNPTTGWKLNPPVGVAVYGEPEYAVTGFPPYPTTGTAVAYROAHLRGRGAVNTFRAAPPPIPTGYAVVYDQGFYGAEL/LEATQPTDLSPLQRQPTATVIAESTQLP
5810	939	65	TRTITPSGPRRPTALEPCETFRFLPG
5811	1522	658	DYSQGVPTVEHGNLTLYTFAQTHPEQPGSEASTQPIAGTQTVQPTDAAQTDSQPLHPSDPTKEQKQPRHLVSNIPFRFRDPLDRQMGQFGKILDVETIINERGSKGFGVFTTSSDADRAREKLNGITVEGRKIEVNNATARVMNKTGNPTTGWKLNPPVGVAVYGEPEYAVTGFPPYPTTGTAVAYROAHLRGRGAVNTFRAAPPPIPTGYAVVYDQGFYGAEL/LEATQPTDLSPLQRQPTATVIAESTQLP
5812	4001	1682	TKTITPSGPRRPTALEPCETFRFLPG
			DLVTWVSVDVCRDIASHTGH/KSVSVVAVLDPYTTSVBERGDFMESGSDSDFDQLLHFRDRADSTQCLSRNSTDSPRSVSYTYF3SVGQDTQLCLMDLTEDILFPHPQLSARHTNVMNATSPPGAGNSGNSVITPGNSVPPPLPSNSLPHSAVNSAGKSVMDGATASQVSKFATLSLHDKRSHHEDKHKNESMGHISKSSDKLNLVTKTKTDPAKTLGTPLCPHMDVPLKPLCKICKIAHRRATVILFLEDCIVTACQGGFCITWGPRQKVV57MD
			EDAVFSLDLSTIIQGTWPLNGELKSNPEGVGSPGALRYRIEQKQLQRLILHAKHQDGSAGLGFSCPGVQSAALTIQESPVHILSPQCKVSLTETTSERVLTCLSRVDVFATWYKDGQKVESEELLVWMDQRHILLIPRAKVKQSGQECRCRVSAAFFGVYQDPPV/HIVDPREHVVHIAITSCVMVLAQVADHARVFWYKQGEVSEDPVVENIGSGHRLNLPATQPSDGGFCVQADEJAYTPTVTIDVSGWIVYPSGKYVVAALVRLVLTCLCKPKAEVRNTKDGSFVSES PALLQKEDTVRLVLPVAVLEDGSGEYLCEDDESASFVTVTVPFPVRIIYPKREVTLLAVTCEVVLMLCLESREDAPVRNYKDLEVESESALVLERDGPFCRLVLPAAQPSDGGFVCDAGDDSAFVTVTVPFPVQFLALETTPSPCLCAQGPVVLSCRLSRAGAPV

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6813	9	836	VNSHNGRVDVQEGEGLEHAEGRFRVLCIQVAGPMAHGLYTCQSG AAPGAPSLSTFVQVAEPFVRVVAEEAQTRVSTPGGDELA/VH LSGPGGPFVRWYKDGRIASQGRVQLEQAGARQVLRVQGARSGEA GEYLCDAPQDSRIFLVSVKEPILVVKLSLDTPLTVHEGGDDATFR CEVSPFDADVTMLRNGAVYTPQPCQSGCCSYGGCRMCQSGKQRT CVSWKQAEWVGQPCACKEVSPCVITFLACWPFWMOTSTASS MYSWYTRAPTAARATITAPWPGA
6814	3	737	SSTQQRPGVAGPRFLDGLVGAHDHPLKMKHCRDCAVLTSSJHL LHSPQSGSDIQTECVIRMDADPTRGVGRDVGWRTSRVIAHSSI QRILENRHLLIANVSQGTVFIWPGSSYMRDGGQVYNNILLLS QVLEPLKAFMITHKMLQFDELFPQSTQVNRKISNTVLTSGWF TMTLIALELCDRINVXGMGPFDFCRDNHSTVPYHYTFPGPDEC TMYLSHERGRKGSHRFRITEKRVFNKWARFTNIIHFPQDPWKPS LAINHPEKFPF
6815	906	553	QQLDPAKTYKFWLLKDAQGRGDRSPRDMAGAGAPSSSESL DVGPTAEGWGDGSGSLRRSGSPGLRDALRSSEMLVKLQGGT PQEPNPRMGHASSLNPILKSVKEPTQPGG
6816	1	803	NLLTKHFLAQQDEDSHSVPVQMGVGYLKLTLASPLREID PDQPKRLHTFGNPFQDKKGMIDEADEFVAGPQNKVRPGEIN SPMSSKRRRSMSLLLRKPQTPPTVTHVGGGPPSASFVSYFN LIKPTLVHTDATIHDGHEEKHENGQITPDGLSKSAPSELINN TGDLMPPNQVDSDDPTSLSKDGLIQKGSNAFVGGAKKCSLS VDDKDPVASTLGAMPNTLQITPMAQGINADIKHQLKEVSKF GRSK
6817	172	3457	LGKMDSPKINGLFPVIGPGTDIGISSLHWGLKXFTDSKVP DEYCPACKKGLKALKATYRISFQESSIFLCELDQCIYPLGSKSL NNLISPDLECHTPhKQPKRKSLESSYKDSILLANSKRTNINIA IDGKFLANSIHNGEVDTSTNLDPSGQGNFRTADSLENNEL LEADTVDMATTKDPAIVDVSQGRNPPQNGCTSKLEMLPSKC TSFVALCVQWNAVALMCDCLISALVHSEELANTVTGLSKSE ESIPWRLTKYQNNTLITYLSQSGVKGQDQCKLASEIPASLEI CLNEVRDEIFISLQPOLRCTLDGMSFVFAFPLLCXLTSHIEKL FLYSFNDPFCSCQGHQVQNRMKSLVPTNVIPEHHINAAHP GPCNCKSKSIQRMVLEKVSPIFMHFPVGLPQNDLQHYATF EGCLVQITVSIIQYRANNIFITWLDADGSWLECDLKGPCSRERH KKFVFPASEIHIWIKISQVDFKRAACLPLKCTNDQHALSNE KPVSLTSCSGDAAASATASVTHPKDISVAFRTSQDVTAVTHGD HLLSGPKGLVDNILLPLTEETIQKTASVQSLNSRAFLLENKPV AENITGLKNTLLSQBSINASSVSAPCNKGLIQDQVDSISFSPQ VVNIMQSVGLATEDFTATKSVKNTDATGLQGKVSLEIKDAQ LAQPLTKTEQLKPEKVTSGVSNLKKETPADSUTTSKSLQNG SLKNGKDFPVSWSKGLLSRGLFPIVCYAHNRNTITDLQPS VKGVNPGKTKGINKQASHVSKARSKSPPIKGPAGP SSNGTAHPHAAASVLEKSGSTSCGQALESYQNGISASNH EDLVGQIKHKLKRLKELKAEKKLAAIMSSQKSVTHSENLE QVQDQSGPNDCESTIEDLNELPYIDIANESACTTVPGVSLYS QTHRIIARLISPTPVSTRISNGEDTFYLGNGDSHIPPVP EPNDVSQNTHLRQDHNYSPTKONPCVQPDSTLNNACVRITNL ESPMKTDIDEPFSSSALNALANDLDPDELYFENY
6818	2	240	RGFDRVLMV/LSGAVK/CVCFSSRISPDGEGYFGLRVVVTTL

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6819	1	961	DGGE/LHS/ATTRHKKP/VQATPVNLT/VILTSIQARLPQI GIPCTEMGNFDNAVIGIEFAIHYCPKXHSLEICAKCNLAY GEEKKKCNFYKTYLLPDRSSQGRKRTGVQRTVDPFTQETLK YQAPAPQLVTRQLQVSVHMLGTLLARRVFLGVEIIPLATWDFRDS TQSFHWHPLRAKADKYKSDVPQSHSCLTTRAKLVLPSPRKRKLQ BQGETDQPSLHQLCLVGLANLWVURSTANSFVKGLCTLP DQKRLKLSVLRKQACQPKWHSYVTSSTPAQLQSSLELTVW DQALFGMMDRLGGT/VL3SKGDTAVGGDACQSKLQKQKVLSS PNLNTDMTLVLH
6820	1014	340	GDWVYIVGVHVPFGFFERTKNAKFRGSGNPKYLAVVRKHVIA GQFFGHHTDSFRMLYDAGVPIAMFTITGVTPWKT/LGVVN GANNPAIRVFYEDRATLSIKDMVTYFMNLSQANQGTFRNLEYE QLTEAYGVPDASHSMTVLDRIGDQSTLQRYVYVNSVSYSAG VCDRACSMQVCMRQVDIDAYTTCLYASGTFVVPQLPLLMAL LGLCT
6821	1088	518	EPDIYR/EVGGSFVPTIRDDSNQFPRTQGGSPSTVHFISQFON RFCVLTLPETLPALATTLIDVLYFSHSTPKKAASSSPSSIT FFAFSLIBGYI/SIVMDAETQKFPSSDLLTSSSGELMRWRIG GQPLGFDCGIVAGIAGPLAADIISAYISTFNFDRHALVPEDOI GSVIEVLQRRQGLAS
6822	1088	518	EPDIYR/EVGGSFVPTIRDDSNQFPRTQGGSPSTVHFISQFON RFCVLTLPETLPALATTLIDVLYFSHSTPKKAASSSPSSIT FFAFSLIBGYI/SIVMDAETQKFPSSDLLTSSSGELMRWRIG GQPLGFDCGIVAGIAGPLAADIISAYISTFNFDRHALVPEDOI GSVIEVLQRRQGLAS
6823	654	221	PPRLSRWNRNGHGRIV/LSDINFPGLLPLVWGWKSVQAC GIPQLLEAVLK/LFLDTYVESPAVHVLVPSDKERGLQTPVWTE YESILRRAGCVRALAKIRFEFYERAKKAFVAVTGETALYGNL ILRKGVLALNPLL
6824	858	104	LLLAQRWGW/CFFFSIASVMMVLLPAGLLPLLLTQPGFRG ALPKIGICAGLQVVLGLPFLLENPSGLYSRSLDLGRQFLPHWT NWRFLPEALFLHRAFLHALLTAHLTLLLLFALCKNHRITGESILS LLRDPSSKKRPVQPLTPMQLVSTFTSMFNGICFSSSLHIVQPYV WYFIFLPLLNHAPRWITLLELLVLSLLELHNTYPTSTCSS AALHICHAIVLILQNLGPOPFPEKSTQSHQK
6825	3	1173	SSGFLQASDINWTSIDTGWLLTICLSLHFWALQATPVNLL PKFDPVLVILKTSYPIKSMGAIIVYXMLQQLDSYKFPHLQ NCLAGRSLLPTLENWRAQTGLDIREFVGQCTETGLTCMVSKTM KIKFGVMTAASCYDQIIDDKGNVLPQGTBZIGIRVKRIRPI GIFSGYVNFDKTAANIRGDFWLGDRGIKEDGYFQFGRADD IINSSGYRIGSPVENALMEHFAVETAVISSPDPVRGEVVKAF VILALQFLSHDFPGLTKELOHVKVSTAPYKPKIEFVLNLPK TVTGKIQRA/KLRDKWMSGKAPCAVHLRDIHLDSPLLSLSF PPGIALPMDGYGDSLWEEHRTKFCIAINISTKLYHVR
6826	2304	954	LKTESFKPW/VNIALAPHLGLGRASNSFQPIYQTLPRYDTP LYFDEEVRIYQSTQAIHVDVPSQYKNTARQYAYFYKVIQIPHA NKLELKDSPITYEDYRNVSSVHTRQNGQITPBGDSRVTLALPLW DKCNHTNGLLITVYNLRDDKCECALQDFRAGEQIYIPYGTESN AEVTHSGOFFDNHSDENKIKLGVSXSKDLIYMAEVLARAGI PTSSVPAHTEPIYSAILLAKVAVYVPSLKEHLLDSAD RITPLGNSHFTVSWNDWVXLTFLERASLLKTKYTKTIEDKS VLXKHDLISVRAKMAIKIRLGEKEILKXKVSANVREYRQOME KCAPLPKYRESNLGLRESVGDRLPLVLRNLEEAGVQDALNI REASIKAKATENGLVNGNSIPNGTRESNLSNQESKRAVEDAK GSSSDTAGVKE

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6827	1	779	SSVVEGLSVLGLFLFLVLEMLGLLHRLGRPRCRKRRNL ETRNLDPENGSGMALPQLQAAPEPGAQGRKNSQHPALAPP HQHSHGHQGGTIDITWVLLGDGLNLTDLGALGAAPSGDSSG LSTTLAVFCHLPHRIQDFAMILQSLSPERLLLSLVSGALGL GGAVLGVGLSGVPLTEWVPGVTAGVFLVALVMDLPALEPSS GAPAYA\HVLQLGLGLLGGCLMLATLLEERLLPVTTEG
6828	3	1654	KQHQ/WILQLMHSCKEGYVDLKGNGFTRAMLLDNGTRPSE LQHLSTASLKRGSSFGSGRDTWRYKTHRVAFVEKLTCLVLS QLPFWKLMSTVMSGLSPSTAEKSGCIERKSNVGRQGVNDPKM IQVMHSLVLTGALLSLHDSGAKYGVGRVEKCLSGQMLA HAIGTVRLTHESLTALEPHDLQTLQDLRLVRVCAWTLCH TAEIKRLAEKEDWVNDNGLTSLCPQFTCCVCSLQSLGVLE CKPGEASVFOQKTEVEQVCLINIMQVFTVYCLEQLSTKPDAD ITDTHSLVDVSSPDLPGSIHEDPSLTSFQRLILVLSNCCYLERHT FLNIAHFEKHNFGQIEKIQVMNSALKELDRFENYIEKAD VIGSLPEGYAGYFDWCDLPPPTGVNRYLKEALVNIJAHAEV FTISKELVPRVLSKVIJAVSEELSLRMQCVSSFSKNGALQARLE ICALRDTVAVYLTPESSKSGKALASALPGSSGADKKLEELIN KFKSSMHLQLTQCPAASSTMMKT
6829	1	782	NHMSASEALPPAGAGGAGGAGGKVRNLNVGGTVFLTRQTLGR EKQFSLRLCQGBELQSDRDETGAYLIDRDETVFGPILNFRHG KLVLIDKMAEQLVLEAFENIGLIRIKDRMEKDYVTCQVP PKHYRVVLQCEBELTQVSTMSDQWRETLVNISSSYSGSD QAEFLCVCSKELMSTWGLSSSSSRKTKTTEQLREQQCEEEV SEVEVEQVQVEADAQEK/CCYKEPAPGCAPEHQLGLGVPI
6830	1	939	MEFGSVENLSTVYRSDFLVNKHNDVYDSEKAWRETLTLQQL RYRPELADPDTCYGRFCHQDFTSGALCVALKAAAGSAYR CFKERRVTKAYLALLRGHIQESRTVISHAIGRNSTEGRAHTMCI EGSGCCENPKPSLTLVVLHGLYAGDEPVSVLLKPLTORTHQL RV/HCSALGHFVVDLTLYGEVSGREDRPFMMHLAFYLRITDIT ECVEVCTPDPFLPSLDACNSPHTLQLSLDLQVLALEATPDDEPE DSGFERGSPSALLPFGPKRRPDPVTKPETERQGRGCLQLWSEAT LEPDS
6831	3	1087	SLFGSGSTFNRKVAECDELTQPSFVBERATVITDPGRTITNF NVAEKPADHSLSEVKKLTADPEGTLLVSGQGVNVEKEMILAN VEDLQQPKPISVSRDYGGKISGDSENNINSVTSADSENL EIQSYSLIGKLVMERAKTIVFHVDTSKRVQKPAIAPPKWNIN SIFKEPREDQKQSLLSFDVVLVQPPQPKSASSNFASKNITKE SEKPEISILPVESKSGSLDIFSEDRLKKEMNCP/SLKISSEETK LRSVSPTEKDNLENK/SYTLAEKKVLAEKQNSV/APLETRDS NEIGKTQITLIGSRSTELCKESKADAMPQHVFQNEVDYNNRPKIIVG SEKKEDEKCKK
6832	1809	412	MKSGLSIQPPQDNGSEALKEPEPAQEHSLPFAAGQPFPEFLIV VSLKKRSGEDDYRPIITYQPKRENLLRGQGBEERILKATPIF CFPDGNEWASLTREYPRETFPSVLINVDGSRKIGYCRALLPAGPG PRLPNTVYCLISGTCFGLPSKILDVEKCHQJSHAVIYFPMQGL REAFPAKGTIVTLKSPIDQSGKESLITDLSHLZVTDLSL LHCLSPROIIQIPASVLERKIIFLAEGLSTLSQCHHARALLY PFSWAHTYIIVVPESLATVCCPTFNVGVQMGFGQGVNDSPME EVLVLNLCBGTFLMSVDEKDLPPKLQDDILDSLGGGINKELKT ARQINRIVSGPFVQFVKIVGHYASYIKREANGQGHQPSRCSFK ALTSKTNRRFVKFKVTQLFSLFQIQAESKSNPAGTPOOKILE YEBQKQ/TETKGNCEIRAVVND
6833	1	1129	PLMTLSQCGGIGKHSHSGGHSHSGHSPKGRPVKSTRPSSDIN VARGQGPQDEETNLVANTSNGLKLDPADBNRPSRGTVEV QVNGNLVREPDHMELEDRAQQLNMRGVFLHVLGALGSGVTVV

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			NALVFFSWRGCSGDFCVNCFDPDKAFVBIINSTHSAVVEA GPCVWLYLDPTLCVWVVCILLYTTPLLKBSALILLQTVPKQID IRNLIKELRNVBGVSEVHELHVWQLAGSRITATAHKCEDPTS YMEVAKTIKDVFNHNGIHATTIQEFASVSGSKSVVFCBLACRTQ CALKQCCQTLPLQAPSGKDAKTFHVSISCLSHSNLEKPRRTK ASNTPAVVVIEIKK\IPNKQPESS
5834	78	1151	RGQERPAFVIRLLKLPVSVRRAGFAHETIN*GA*E*RGSLP LCGSSASKYGW*RLTPWSGGG*H*SSKAPVTCQBEVLVACP CSKLVLSGARGIVGTTVQVLEAQQPLLLFTGVGGLMLRAGEE SRAL*LIBEVTVQRDAHLGNVVGCAQCLSQGVQSALAKALLE AAAAVRDCKEVLTVSGDKQABVSRL*VRDVCEEAGCVSPQG AHORPGLALAKRGGTTNEVESQVQGVQQLVLTSAHECHELVAG QQDGEDQAARTRILLQAGAHSAVHRXGQAPCRPHQAGVSCHE LQQVGDAL*ARE*APQIIIVLLLEDDVQAQRTGKKA*DLVVDVE QILRLQ
5835	1	834	GTPAADRVEASLELILKDISRTFNNCLFQQGGPYHDMNLSILG AYTCYRPDVGVCQMSFIAAVLIINLNDADAFIAFNNLMLKPCQ MAFFRVHDGIMLTFFAAFEVFFENLKLFAHFKKRLNTPDIYL IDWIFTLYSKSLPLDLACRIMWVFCRDGEEFLFATLGLKLFE DILLTMDFIIMAQFLRLPEDLPAEELFASIIATIQGSRMKHGA QVLTALQDSREMRBGSVPPTLRLQRFALQGTQSPNPLLOC FBLTFCQPRRTDAL
5836	1	850	MSCGRPPFDVDMITLKV\LNLTFRTPSEGLRVRVKKYGVGV YIPREHMTKAPRGFAFVRPHDRPDADQATAMDGARLDGDELRV QVARYGRRLDPRSGRRHAGPEALRYGRRSRYGRRSRSPR RRHRSRSGPSCSRSSRSRYGRSVRSYRSYRSYRSYRSYRS PYRSRYRESRYGGSHYSSGYSNRSRYHSHRSKSGSSTS SRASSTSKSSARRSKSSSVSRSSRSRSSSNTSRSPRVSKKS KSRSRKPPKSPSEBGGMS
5837	1	1369	TDGAAVACNPGSDYFPGGTAP/GGPRTRFVSGTSSSGCSKSGP RPPPAQDGTSLSPNYLTLESTSGNDKPKVSGGGGRGRKKDS GHVSPGTFFDKYSAAPDSGGAGVSPGQQASGAAVGSSAGET RGAPTPHAKLSLPSWKGASLLGQDQLDLGSGAKSDSSSS PVCEPADDEVTSTYANIDVSSSSNFKALVFASSSLVTPGSE KLPPROVQAGREKGPAPPAALGLDMNSTSTPDSVCSGGGPH PTPLGLEQVKTPTSSGAPPPDEIHLILCAQIQI\QROQFST EOPPLGLKGGKKGCAVGASGQNGDSILGSCSEAVKASMTI DLDSIMAKHSAAWYMPADKALVSDADDKTLAPWEKAPQNPWS KEAHDLPANKASAGQPSHLCQLSVHCTDVGDAKARASVPTWR SLESIDSNRPGTFVAALT
5838	16	499	LDTPPPKTHMLHRSIDYKATLCNWLGAFTYNEITLTWQDDE DQTRIMELVETRPAGDGTQKHAADVVSCE/QRYMCHVQHE GLPEPLTLRWEOSSOPTIPVIGIVAGVLGAVVTVAVSVMC RKNSDRVSYSKAASSDHAQGSIVSITACV
5839	1	1195	AAPAGGGDPDEALSAFGRHLSGLSWPVQLRLDALLSEPIFHG RONPFTLSVQPRQIRAGGPQHPCGAG\IHRVRHLHGSASSHVL HPESGLGYKDLDLVFERDLRSBASQTLKAVVLACLDLFPAGV SRAKTIPUTLKEATYQKLVKCTDSNRSLSLSNKSGKNVELK FVSVVRPFFSIDSPQILDSLLFGQCSSTPMSAFPFTVVG KSLYGDPTLRLHRLHVR\ATHSRPIHSGCLKYLHAKQF PRPSTDVRLQRYMCSRFPIIDPDLVQRKTLERYLHAHOGAD AARRYACLVTLEHVNVESTVCLMCHERRPTLDLTAALAIQALAS QCPAATAALAMRPFGTDGVVPATVNYVTPVQPLLAHAYPTWL CN
5840	4254	2061	SLQSDFSVPDVPKSMACNSICVGRKDYILTRVDGKSKREL PFTGKQLSPLVAPLADGKVAVGQDILTIVLNEBGLCTQKCALNW

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6845	3	1519	PLGEDCPSELREIIDEGRANDPSVRSDVDEILKKLS*CIK I VAVRDECVRRHVPMDQDLMLFLFCEPETAARALEYRIRTLTD GALENAQNIAGYQGAFFAWESADSGLEVCEDPIYGVQEVHNGAV GLAPFLYHTTQDLQFRFAGGWDVRAVAFPMQSRVMSFREE FHLRQVNSPDYHSVGNVSVITVILVQNSLFAALLAQDLGLP IPSOQLAVADKLKVPITVQTHPDEQDEPQSVKQADVLLG YVPPFSLSPDVRKKNLEIYEAVTSPQGPMTWISGFANWVGLKO AVRARGLLDRSPFAMAEPPKVMTEADSGAVFLMGGLQ VVFQCTGFRVTRAGVTDFPCLSGISRVSVSGIFQYQKIKNFSF SEDSVTVEVTARAGVPWAPHEALEMPSQSRLLLPGHKVSFFPS ACRIQMSPPKLPSSSSSEFPGRFTSDVRDLQSPIMVTLGSSSP TESLTVDPASE*SGTGASETSLGSPSTNPRHPPLLOTLLACHFS PAARLGGKVHAAMPFKAFLCL
6846	213	1258	LYFLKTK*LNRLAEHP*YENSKITKLENTIMEQVTRTESARG IIFTKTROSAYALSOWITENKFAEVGVVKAHELIGAHSSSEFKP MTQNEQKEVISKFRTKINILLIATTVAEBGLDKRCNIVIRYGL VTNELVMQARGARADESTYVLVAHSGSGVIEHETVNDPREXM MYIALNKVQMKPESYAHKILBLQMSIMKMKTKTKNIAKHYK NPSLLTFLCKKCVLAOSSEITVEIENHVRNTPFEKELITY REBKTLQKKADYQINGEILCKQQAQWTKVGLKLPCKIR NFVVVFNKNSTKKQYKKNVSLPTTFPNLDYSECLPSDED SMCWNSDRLEMPDLIDLALILYPPSTYPTTGHSDSLSRKYCLT NFEEDALNGVL*RAEAIQPHCVNAGDRMEKPRKYNNKLTQLRQQ PFAYGTLTVRSILDTREHCLNEFNFPDPFKVQKRENGVALRCP PGVVRSLDALGNEERQLALVGLLAGNVFDWGAJAVSAVLESDP YPOFEBAKRKLQBRPWLVDYSYSEHLQRLKQPHKCALIFADNSG IDIILGVFPFVRELLLRGTVEILACHSFPAINDVTHSESLIVAE RIAGMDPVVHSALREERLLLVTGSSSPCLDSLRLDQALALVR ERGAIDLVBGMORAVHTNYHAALRCSLSLKIAGIANLAEILG GRLSVFVFKYVPAE
6848	19	16	AMWNSIDGIRIVISNPFKRLTSLMLKLSQSDIHDAASND LXVILISBAPFVSSGHLKELTEBGGNDYHAEVFGTCSKVMHM IRNHPVPIVWVGLATAGCQVVASCDIAVASXBSFNTPGVN VCLEPCSTPVALANAVPEKVALELPTTDEISAGALLHLLNK VVPARLQFTNRIRKIASLSRPVVSIGKATFFYKOLPQDLGTA YYLTSQMVDNLALRDQGBGIFTAPLQKPKVWSEFV*VEH SLGVDSGLQGSFADRPQTDTST*PVGNWATQOEDLYHQVYC VCVLPAFVPDPFKEPYSBSNINHEGLCLRLNBIADFEDELLSK PKFSGVKIKITIGSTYMAATGLNATSGQDQDAERSCHLQTM VEFAVALQSKLDVINGISFNNFRLRVGLNHGPFVAVGIGAQPQ YDINGNTVNVASRMESTGLVGLQVTFESTANALQSLGYTCYSRG VIVKGGKQCLTYPLNTDLTRTGPSPATLS
6850	2	1235	ARGLNHEWTFEKLKQHSRNAGQKQRLHFMISGVPPDAVFLTD LDVILKLELI PRAKIPAKISQWNLQELHLCHCPAKVQATFASPL RDELRCLHVKPTDVAEI PAWVYLLKNLRELYLIGNINSENNKMI GLSSRLRLRLKLIHVNENLTKVPSNITDVAFLTKLVTHINDGT KLVVLSLKNMNVVAELIQCNELERIPIATPSLNLQELDLKS NMKRTIBELISFOHKLRTKLHMBKIVTIPSTLTKGNLLES YPSNKLLESIPAVFISQKLKCLDVSYNNISNIP*EIGLLQRLQ HLHITGNKVILLKPOLKCIKLRTNMLGQNCITSLPRKVGLOSO LTOLELKNCLDLPLQGLQCRMLKKSGLVVEDHLFTLLEVK EALNQDINTIPFANGI
6851	1765	660	VSAQVSAREGNCILGNWNLASSQSSYKSLSEARDCYPPSLTFLD LIDLFLNQVQGPILSCPGATDLSMGRARSVGNWAGLMIGAGA CYCVKLTIGRDESEKLEBEGEWDQDQDLEEDPDIWDFDET

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			MARPWTEGDWTEPGAGGTEDRPSGGKANRAHPITKQRPFFPYE HKNTWSAQCKNGKSCVLDLSKCLFIQGLKLLFAEPKDAQFPFSQD INSHLASLSMARNTSPTDPFIVREALCAFDNLNASIESQGIKIM YNEVCRSTVSRCCNSPTQAGLMLLISMTVINMLAKSASDLK FPLISGGGCAKGVVLKPLMGLSEKFLVAGELVGAQMLFSPMSL FRNGNREILLETAP
6852	1	407	RTRGERTYANFIFKKNFGKNIFTAARPATFAMFAMFNTLSGLT GPIGLNSIAVLONLVMGLALIFLCTWAVKYSGEFGREITGVTDQ IAETLMSEQVLKPLAGDNLMEENTRQSVTISIKAGLTQVSHHARL KTD
6853	3	469	GDSCAVCIETELYKPNLDVRLITCNHIFHTCVDPMWLEIRTCFPC KCDILKALGIEVDVDEGVSQGVPSNEIFNSASSHEEDNRSET ASSGYASVQGTIEPFLLEHVQSTIESQLVNHRANSVADVIFPH VDNPTFEEDETPMQETAVREIKS
6854		585	HESIIGTFDPEGLCVCAATQMLQNSASVFLNRKLVIEFSTQAK PVKNTPLRMWYISHHIYOODLRKKILDVGRKLDVTOFCMTGKPG IICVEGPKHECEPWHITRYPNWHISCHASVSVETENGGRDLR LFHSFEEILLSEAGDYGLRNDYHNLGLGFLEFLKHKHSEHVFCI LPGTESKSSS
6855	1913	1148	GRVGRGRICSPFSGAMEYIASPTFLKTEBVLFLDQTDOLAK EPTSLPORDSETKESGLVLSGDKHMQIFEDLQKLAASRP YTPGCTQRWAEMVVALDAHMRGIVCRDLVFNITLNDRGHI QITVFSRMSEVEDSCDSDAIRMYCAPEVGAITEETECADWNSL GAVLFELLTGKTLVSCHPAGINTHTTLNMEFWSEARSILIQQL LQFNPLERLGAGVAGVEDIKSEFPFPTVDWAEIAR
6856	1617	597	VTQLYVSVDASTKSLKKIDRLEKDFKQFQFDSIKALAVKQQR TVYRLTLVKANNVDELQAYALVSLGNPDFIEVKGVTYCGESSA SSLTVAHWVPHSEVQFVRELVDLIPYEIACHEHSCLLIAH RKFKIGEWNTWYNRPOELIQEYEDSGSKTFSAKDYNARLP HWALFGASERGPDFKDTREHQRNKSIALSGC
6857	1	617	KGPEATAMVCVCSHPNCRQNHKPSBSAQAQTCGSPFPASAPNH KLNAMEQKTLPSATEDAKEEGLSAQISRLAEILGLSEKALPM DLQQRSLDEGNTNMLQLVQGRMVCVCELSFELDLNQYLLGT TOVINCFITAVLSDGQPTVIVETFEAMKRLQSLPCLCAF RHIVKDTISQPELGRILVPAWCTVGRD
6858	2	669	RSRGIKDFENDPLSSGCTFCRSRAGDAILESGIRISVSPASPA LRCVQTKALILELKLKELKKIKIRVEPGLPEWTKWEAGCTPTLM SLEELKRANFNIDTVRAPFLSALMPAESVOEYMDRCTASWVQ IVNTCPQDTGVILIVSHGSLDSCTRPLQLPRECCDFAPQLVR KIPSLGMCPEENKEGKELVNFVFKTLTHGANAANFNRNNIS GN
6859	1	1150	GETMFKKAKTRAKKPKRERSDSSGYNLSDTIOSPSSITGLKSG KINSVESLPELLTSDSGS YAGVGS PRDLQSPDFTTGFHSDKIE AKVIPYVNGTSVYSHEDLKPEWESPLIKISAPQIPISNRIDTT SSASVWAGSFSVPSVPVVDLRTIMEIEESRQKCGATPKSHLGKT VSHOVLSQKQKRMIALTKENNSGNNSEIVLFTPSKAPKPVN AWASSLHSSVSSKSPRDLLEEKSVTSHSSGDHVKKVSPFKREN SQAPKIVRCS7HTGTPGEGNHISDLPLDSNPMPWLSSTVAPSM VAPFPTASIVREELQGEAALISREKFLALIGIEHAIDQLLIF YEAFQNPSEVIVVERIKGHLVAVPWHKIC
6860	1889	1515	DDKKKKQKKGTFFKVTATNTHRAWLFPHLTHFYPSREOKQLAQ DTGLTTLQVNNFINARRIIVQPMIDQSNRAVSGOAGAYSPEQGQ MGSFVLDDGQCHMGIRPAGFMSGMSGMSGMSGMSGMSGMSG
6861	1889	1515	DDKKKKQKKGTFFKVTATNTHRAWLFPHLTHFYPSREOKQLAQ DTGLTTLQVNNFINARRIIVQPMIDQSNRAVSGOAGAYSPEQGQ

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6862	2	471	<p>MGSPVLDGQQHMGIRPAGPKSGMGNMGMGQGNHYM</p> <p>KEIDREFHNKRLKEDKLEKQKPVNGEDKGDGSGVITQNSEONA DEEDPLGPNCTYDKT KSPFONISODNRSRRPTWASERRLNAET FGILPLPWRGRGCHIRGRGLGFRGGRGGRGGGTFTAPAGFRG GYRGGRGRSEADEFRKTIAPG</p>
6863	2216	487	<p>PQEPALKSEFSQVASTNIPILPFPDPTCKNGPCPKQVCSVVGSS AICSCFPGYAIMADGVSCEDEKLMGADCSRROFCVNTLDSGF YCVNHTVLGADGYILNHRKVCVDINECTVLTITCSRGHECVNTL GSPHCYKALTCSPGYALKDGECEVDEBCAMGHTCCPGPIQQNT KGSFYCARQRCMDGFIQDPEGNICVDINECTSI.SEP.CRPGFS NTVGSYTCQRNPLICARGYHSDGDKCVDVNECECTGVHRCOEG QVCHNLPGSYRCDCKAGFQDADFRCGICDVNECHASPGRLCQHT CENTLGSYRCSGASGFLLAADGKCBVNECAQRCSCQECANTY GSYQCYCRQGYQLAEDGHTCTDIDECAGAGILCTPRCINVPGS YQCAQCEQGYTMTANGRSCKDVDECALGTHNCSEBETCHNIQGS FRCLRFECPFNIVQVSKTCERTTCHDFLCQNSPARITHYJLJN FQTLGLVPAHIFRIGPAPAFGTGDIALNIIKGNIEGYGPTRRLN ATTGVYLQRAVLEPRDFALDVENKILNRQGSVTTFLAKMHIFFT TFAL</p>
6864	2	2933	<p>LADSSPSNLQITIKELLSMHKKPPALKEFFDYLFPVLSSSSSS FVGLRNGGATCYMNAVQQLYMQGLPSSLSDVDDDTNPDPSV FYQVQSLGHLHMLKLOYTVPEFNFKIPKQNKELVYBQOQAY EFTTSLIDOMDEYLIKMGKRDQIFWNTFGIYSDQIKCKDCPHER BEEBAFMAINLGVTSQSLEISLDQFVJGVELEGSNAYCECKK EKRITVKRTCKISLPSVLVIHLMRFGFVWESGRSIXYDEQIRFP WMLMEPVTYSQMARQDSSSEVGENGRSDVQGGGGSFRKICVALT ENYELVGVIVHSGQAHAGHYSPFKDRRGCKGKWKYKENDTVIE EFDLNDTELEYECFGGEYRPFVQDQTNFYIDVRRRYWNAVMLPY QRVSDQNSFVLPKKRSVSVVQEAEDLSISAPSSPEISQSSPR PFRPHDRSLILTKLVKSGKKEGLFVKMPARIYQMRDENLAKF MENEDVYSSDYSFVSSLSASLALIKLKHPIYTPCHAKVSLQIAIQ PLPOTYVATKKELRVDEEVALTEALLSSFDACQWLVHVPFTS SGBRELKIKIFLLKCNVREVRVAVATLEKTLDSAFYQDKLSL HOLLEVLIALLDKDVPERKCNCAQYFLENTVQKQIRAGDILL LRHSALRHMISLILGASRQNNQIRMSAQARFPGNLHNTVALL VLHSDVSSQBNVAFGIFKQRPPTISAPSSPLPLHHEVEALLFW SBGKPVILLEVMFALRELGLSLLALTEMVVYCCFCEHHSPTMLH PIKQLETPAFHIELKNTFQLLHILVIEDPIQVERVKFVETEN GLLALMHHSNHVDSRQCYQVCLPLVLAQKCPAAKEVFKENSHH WSWAVQNLQKMSRHYWTLQSNVSNETSIGKTPORTISADPLLA YATALNNEKQSGSSNGSESSPANENGURHLQGESPPMIGEL RSLDDVDVDP</p>
6865	1820	1242	<p>DFERNKHLKSVTFPGSSSVSTTPPVQVRLQSPQSQSSMMPSCNRS CSCRSRGSVDEGKMYGVRSYLHLYFEGYAVPPKLGIGSGEFLV LDQRADYDNGALGCRKAGTALCVAGVLLAICLFWAMIGWLSQ DTKAKFLDPEADSHVRFVGEPEQQLSPITFNAGSGSWTSPPAS PFGQSSVOTIOPKRRS</p>
6866	1571	495	<p>DCPRPYEYVGLRATCRHLDNANINAVSAFALQDLQVNIKF IIEBMEAGSVALEELVSEKDRFPFGVDYIVISDNLWISQRKP ALTGTGRGNSYFMVVEVKCRDQDPSGTGGILHSPMADLVALLG SLVDSSGHILAVGIVYDEVVPLTRESINTYEAHLDEEYRNSR VEKFLFDTKRILHMLHWRYSLSIHGIEGAFDPGKTIVIPGRV IGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSNEMVSMITL GLHPWLANIDDTQYLAAGRAIRTVPGTEPDMIRDGSTIPIAKMF QETVHKSVVILPLGAVDDGHSQNEKINRWNYEGTKLFAAPFL EMAQLH</p>

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6857	2833	1704	GTRIMSQPEQKELAGFVRQIMLLDYSVYMGRCVFPQESRSQPSR LQSAESSPTAGKLLPEVPPSEEEQAMVNNALLGRIFMDFLSEK YMSDLVSKKIQMKLSKILPYFMNELTLTLMGVAVPFIQLQAF KPYVDHKGWIDLEMSYNGSFLMTLETQWMLTKLKGEPVLEALK VBTIGKQCRPRACLDSDSSSSAGSSEEDDAFEPGGGDKQL LFGAGYGVGGHETSQWTFVDITIKSKVFKKATBTEFKKRIE VSNTPILLTVVQECRTGLAVNNIPPPPTDVRVYVQKRPHEVLEK ARPKLGERVTLVHVTMDTEKULEORFQKVFVFMNMDVYITIM HSAMDPRSTSCLLKDPVVEAADQP
6858	1	346	RPTFPPTTPEETKMLILFYISDNNFQOLCEFYELPMTDKGFD KATFESQMSVMRGQILNLTQALRDGKSQFQVQIPCVIVERSQGG SQQRIVHLSNSTQTQVNCRKPPFSW
6859	3	1619	KYMERNDKRALISFWSSVHLLKQNKNNKIFQVGBEIQYQNFVFS KEISVEKSLYKEIQCLVNGKGIIEVFYKIQEDVYVETLDRYPS FIVSDLYEKLILKEEKHASQMSINKDEMOPRDEAGEFAVDGDT NQINEQSAFVNLRELTEKLEYKQALNSIQNAKPKDKCIIVSK LKDBIILIEKERTDQLHMARTDNCNCLGMWKAISTGSEVTE NGEGLPCYFMVMSLQEVGGVETKNNVTVPKRLSEPHNLKRLSEC VPSLKKDQLPSKSLKPFPSIDHTEKFKENQLKFLQNLSDER LCQSEALVAFSPSPDYLVUWQVKNISPSLSFLELDRDFP SHQEETEDSDSDYGDVQDGLADLASECPNLGTFELKQW FKWVETLIALVQVTFGRITINKQLRDTVSWIPSEQLVYVYINIP RDAFWPNGKLAPPTTIRSEKQSQETKQRAQKLENTIDMLQSL VQQQNAHGGIIKIFNALQETRANKHLLVAMKMLLLELCPERV HLQDLQAGQV
6870	1	1566	MAAVVAATRWQQLLNLVSAAGHGASGAPQPPNILLLEMDMGWG DLQVYGEPSRETPNLDGAAEGLFPNFSANPLCSPSRAALLT GRLPINRGFYTNNAHARNTYTPQEIYVGGIPDSQLPELLKKAQ YVSKI VQKHGHRPQPHPLKHGDEWFGSPNCHFGPYDNKARP NIPVYRDWEMVORYYBEFFINLKTGEANLTQIYLQEALEFKRQ ARHIPFFLYXWADATHAPVYASRPLGTISGRGYGDAVRIDDS IGKILBELLQDLHVAQNTVFVPTSSGAALLSAPQCGSGNPPFLC OKQTTPEQWREPALAWPQHVHTAQVSHGLASIMDLFTSLAL AGLTPPSDRADLGNLPLTLQGRLANDRPFYTRDPTLMAATLQ QKHAHPWTWNSWENFROGIDPCQGNQGVCTHILELHETLPL IPLHGRDPQERTPLSPASAEYQEAISRITSVVCQHEALVPAQP QJANVCNVAWNNAPPQCEKLGCLTTPESIPKCKLWSH
6871	209	1126	RMSLNPTIPLKRSRNSKFPVETKQSQTTSIASEDPTQNLCLAS QSVLQKQAGQSGRSKCLKCGGSRMFQCYTCYVPEVNPVIEQIPLV KLPLKIDIIKHNETDGSATLHAKLLAPEFVNITYYPCIPESY EKDHEVALIPPGQSISIKDISPHLQKRIQNNVRGKNDEDKPS PKRRTEREQEFCIDNSCKCKGTTLLKKIIFIDSTWQNTKIPTE RLQQLLQVBLKTRKTCWHRHQKGPDTFLSTIEALYIYPLVDYHT DILKERYRGQYDNLFFYSFYMLIKINAKCSGDKETOKLTH
6872	880	459	FGIIMVVISLIFMKNGCVREDLIFNLFKGLDVRETNLFGENT KKLITKVFVRQKYLRYRIIYTPTEPASYEFLMGPRAFLETSKNLV LRFKLKHKDPQSWFHYLRLASCBWSDTDSDFPTDYSALIG PTSRPPPR
6873	1929	955	DEQAVLCSKDKTIDLKADTSNMLLFTPOCKTPOGLKKEDSHCN IITHLEFGPSNNYBLRRRRPKAKKLKLLMNPYEGDPQSKK DSNSKYYTTRDLAQIQASEREINTOLQVHACKIGGYNRILEF DYEMKLLHNVQLVDSRWSFGKVLPLNTCLQGLPLEPSEMIH CLKCYGKKYVDEGEVYFLDADKI CRAAARMLLQNAVKFNLAZF QSVWQGSVPFGMVTSLDQLKGLAVDRHSRPEIIFLLKVDLPE DNQGRFNSLPSLRKWTSEDIAPYIQLCGEKQTIQALLTKYSH SSMONGVKVNSRRPIS

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6874	1	307	DSIAHVNNSAAVNEEGT KNLGKAAYKLALPVAGALGGVVG GPIGLLAGPKVAGIAAALGGGVLTGTGGKILIRKQKQNMELITS SCPLDPSCTDKKCS
6875	1688	349	VIGTGERGNSASEKWEIMFNEELDGPPIIHSISLINAEEHISA TLLLRIRKEBELDMKSGSFYVLEWVTISIKQNDKMKYELIKRDI LRGKSVPHYAAISPDGMLIVSVKSLITFVQAGQGLEENHDEDI SEKIKKPIFYWQQTDDITVTTIRLPEDATKRIQIQIPPHINI VLKDHQTLBGLKYSSIDIESSTWIKESNLISLKKKGGITW PKLVIGDKGELIRDSAQCAALAEMLHLSSEINPNPDKKPP CNAELEECDFIPESSSLCRFDGNTLKTTHVMGSGNYLPSV IVDPKEMPFCFLRHVDALQWPHSSKQDMMHEIATFNALGVY QASRKDKKFPACAPNYSYAALCECLRRVFIYRQFAPMSTVLYNR KRGRCVGVAKQVVASLETNDPILGQTATNERLEVLTTKLELI KVNIN
6876	41	1285	VOEMTLINRHLRLCLVTSAPRILEMPPFLSOTSRTSVTKLS LHTKPNMPDPMPEYQVIFLVNIGSSSEALMLAMARHSNNI DIISFRGAYHGCSFYTGLTNVIGIKMRLPGGTGCOPTMCPDVF RGPVGGSHCRDSPVQTIKRCSCAPDCQADQYIEQFQDLTSLTS VAKSLASFAEPDQGVGVVQPKGFLKEAFELVARGGVCIAN EVYGFELSSHPKQCTHVDLPDITVYVANGIGNGFPFAAVITP ETIAKGLAKCLQHFWFGKGFACASGAVLEKKEELQENQ EVTGVMLLKFAKLEDFEIVGVGVKGLMIGTEMVDKISCRPL PREEVNIHEDCKHGLVGRGSIISQTFRIAPSMCITKPFVDF AVEVFRSALTQHMERRAK
6877	1	778	GTSFSPARATAPPTERRKIFYONVSIQSGGGFEINLDRKLKTP QAKLFTVPSRALAIATVENDSQDPTIKYTTGHLTLCNTSLDN PTQENKQGLIRAAVKFLDITDI CYRVEEPTELVELQRNWDPII EWAKRYGVIESSISTIMGPSIPAKTREVLVSHLASYNTWALQG IEFVAALKSMVLTGLIDRLTVEQAVLLSRLSEEVYIQKQGN IEWAHDYELQELRARTAAOTLFIHLCSSESTTVKHLKKE QTLQDGFKNRAEMIDFNIRKVNISDAGGYCEFSAPSEQQGN LEEDTVTLLEVIVAPVPSCEVPSALSITVLELQDQKQGNFAP ETWFKDQIRLERPLRSQSSTNSSTNMKXICITQNTQNTVSLD TOEYSEARMISVYRRCQPKRMQVDDMLISGLIAAVVVALVTS VCSIGVYCAQRKYFSKETS PQGNSSSSIGATMSINDFPHXTSP IT
6878	931	263	IRVIGESIDINQFELSKSDENYINVSIVSLALFEDGTTVPVAVK KNSTTDQVYQAIKAVGMDSTTVNYALFEVISESVKRLAPNS PFHQLIYQNTSVAVPQCTCLIRKVLFTPEEILINDNDLAVTVP FHQAVDDVKKGYIKABKSYQLQKLYEQRMVNYLNMRLTCEGY NEIIFPHCACDSRRKHVITAIISITHFLAECTBQQLNQVIA FEWDEMQRWUDEEGWAFCEYRAGEKKPRWVKIPTYPYNYHSE CFERFVCELKWRKSEY
6880	2110	1437	RKDNCTAKSWTFPEAKGNFTARVFSHILMGRHVLIVQCFISS MANIYNKILKBNQLTBSIPQNSKLTYPGLFENGLTGLQRS NEDQIKNCGFYTHRAFSVALIVTAFQGLSVAFILKFLDNAPH VMAQVTVITVITVSVLVDPFRLSEFLFAPSVLISFTFYNAS KPCVTFYAPQRIRDI.SGMLWERSSGDGELELKITKPSDESD EDT
6881	2638	2244	NDEKWDIHVITGALKWFFREPEPLFTFMHPNDFVNAIKCPFR QRVAVKOLIRQLPKPDQNTMGLIPLHRRVINEGRKRNITYOS IAIVFGPTILKPEKETGNIAVHTVYQNGIVELIILELSSIFGR
6882	1	850	GIPAEGLMIYPPKSCGVVPSAECTVAGLRSGLDERFFVLIN OBNMVTAROEPRVLISLTCDQDTLISAAVYTDLLIKTPT TNVHVKRCHVHGLEIEGRDCGEATQWITSPLKSOPLYRLVHFEPP MRPRFPHQIADLPFPHQIAYSPTSFFLISERSLACLSNRLK

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5883	2794	2256	KVKATNFRPNI VSGGDVYAEDESDELLIDGVETLKRVMACSRCT LTTVDPTDGVMRSRKEPLETILKSYRQCDPSERKLKYSPLGGYF VLENPGTIKVGDPVYLLGQ HSLKLNQNKQKFTTLTTQVLSLHGMGPGHILKQEGAFVTVQR AQLQLYDRLVNI VLTAKGDBVSGRSKSPRIEKVTHLEALI DPHLDVFTPLHLSNLMRLVQRTSLVFLVLTGTENGLAFRSSTF NSQSPHNILPLASSQIRFGILLPLSTSTRAKSTRNITKAGYD ANC
5884	2	99	EFERVTARAVKPRSTSEPRAAQRFCCKFFPL
5885	297	1554	STGQFMHVTDLRLDPTVHTTDDNTKVCASESKANASNPFGPDV LCDSPYQLILSAFDFIKNSQGEASFMITGDSPPHVPVPELSTD TVINVTNMTTIQSLFPNQLVFFALGNHDYHPQDQLSVTTEKV YNAVANLKNFPLDEESAISTLRGGFYSQKVTNNENLRITISLNTN LYYGPHIMTLNKTDPAQFPEWLESTLNNSSQNKKEVYIIAHVPV GYLPSSQNI TAMREYVNEKLIDIFOKYSVDIAGQFYGHTHRDSI MVLSDKKGSPVNSLEVAFAVTPVKVSELEQNTINFGIRLFGYDPR DYKLLDMLQYILNLTEANLKGSSIKWLEYILTQTYYDIEDLPQES DYGLAQKFTILDSKQPIKYNTYFVSVDSSVCTKCTKAFQICQ IHWLDMISYADCLAQYIKMY
5886	2	1341	QCGSTPTGEGSSPLBEGTSSPACVGAAPGSEDAFYPTAK QARVSQLKKAANKTVSISGSDTLQDMERETLALAFEPF LEKCAECWKRPFRSASASTSLTSHCDVIVGILLDPKRRRHSI GGAPEQRVQIIPVCVAARLPTAGDVLDAHLSVNAVRFGRSS LLATGADRLIHLNNVGSRLKANQTLKGAGGSI TSVDPPSGY QVLAATYNQAQNLKVGGAQSKETLSGHDKVKTAARFKLTRHA QVTGSRDRTVKEWDLGRAYCSRTINVLVSCHDVCGDHIIISGHN DQKIRFVNSRQFCHTQVIPVQGRVTSLSLSDQLHLSCSRDNT LKVIDLRVSNIRQVFRADGFKCGSDMTXAVTSPRSYALAGS CD GALYINDVDTGLESRLQGFHCAAVNAVANCYSGSHMVSQDGR KVLWQ
5887	1047	116	WTARPQKFPWEAGAVFGDPLSTGCSQALQGCCPFGPWGPHQ GQCRRAAGETLFGERGQFGQSGPGLAAQTPPTSKQVAVRAFLP TYRSQSPSPAGPFGGTGWMPFEPANCLCVAQCPQLSGPFLVY NASQSEHCYDIYRLHSCADPTCCCTGPDAAANDYACTENLT PASNNVTDMFPLDPTDELGRYCYLDTGWVWPPEDMLLTSFWG DLRAASNIIPSNGLDPAAGGTRNLSASVIAVTIQQGAHLD LRASHPEPPASVVEARKLEATIIGEVIAARREQQFALRGFRL SL
5888	1	992	FVAYVKEIPHIWTHCLNPLAIVITKTLPLKLRDALFTVVRVI NPIKGRAPNIRLPQAFPERIGIYSVLPTHTMRMLSRGQILTH IFEMYERINQPLHHKSSNLVDGFENKEFKIHLAYLADLFQHLNE LSASMORTGMNTVSAREKLSAFVRKFPFQKRIEKNFTNFFPL REIIIVSDNEGIIAARTILHLQQLSNFFHGYFISGIDLEASKWT LDFFPLNIDFVDSYLMQNDIASLRASGQILMEFPNTKLEDPMFC AQFTAFPNLAKTALSLMPFATTYLCBELGSIITFTPNKQVPEAA ILLSDDIRVAISKKVPSFLGH
5889	1	1534	LTLNQIKERKBDNISESPNGRTSPLVSQNEQGSSTLRDLITTT AGKLRQSTAGIATAFVTSYGAPSSKSGRTMNPITLDDIIASVV ENKIPPSKTSKINAPRLKEPSEKSIANVBNKLSIDIPHSW ICKHILMLKDYKNSNKKLKECNWQGGQAVVSVWIKNTLSL WKASISLDFGDHQAIDLNCNDSIISNANNREYNDQPEVSKQ KNSGSETVILKLDMPSEGDFKTMMPARYEDLLKSLDPEVCNP BGFNLSHLPGFVVRPDLGRLCSAYGVVAAKDHDIDTTLNHI EVSDVNVNIIYVGLAKNGILSKAGILKKFZEEDLDILRLKLD DSSEIPGALWHIYAGKDVKIRBFLQKSKBQGLEVLPEHDPTR DQSNYVNNKLRQRLLEBYGVRTVTLIOFGDAIVLPAALHQC

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6890	3	667	NFHCQIVTDFVSPHELVRSFHLTQELRLAKEINYYDDKLQVR NILYHAKEMVRALKIHEDEVDMMERN THAGMWIPLYDHRADVVRHTAETCNSPFGAKCSLIGATCF TSELSVDTRGATWCRKQADPLVCAGVMGSAIFICLIFV AKSSIVATYICIPVQETLLFSNWAITADLMYVVIPTTRATAV ALQSPTHLGDAGSPYLGIFGSLIRQSTKDSFLMEFLSLGVA LMELCPVVVLGGWFFLATALFPVSDRAREQQVNLAMPASVK V
6891	1980	1252	LRHQELLSKFKLLRGITIRSIHHGLAGKEQFQDQANVMQ LLKTKOSHLNMDNNEPVRQAAYGLQVMAFGQDYLSCSE AVPLLKVKIKRAHSTKKNVIATENCISAIKILKFKPCNVND EVLPHNLSWLPLEDKEAQTSLFLDLIESNHPPVIGPNSN LPKISIIAEGKINETINYPDCAKRLANVVRQVTSEDLNLE VSQDLDEQDALQELINFA
6892	3	876	RSVAAASGPGAWGTHYCLELIRIRRVYGGVLCPLLPAESRSV PALRAFNVLAQVDSVSEKTIGLMMQPFNKKTVEIYCNDFPH QPAIELKAVKRNHLTKRWLKIIVDEREKINDDKAYRNKELE NIAENTQSSLLYLLKILGKDLHADHAASHIGAGQIVTCTRA TPYKGRKVFPLNDYCNLHGVSGEDFIRNQCQNVVDIYDIA SQAHALHARSFHKYFVKAHPALFQVTSLEDFLKIQRVDFD IFHPSLQKNTLLPLVLYQSWRTY
6893	1	842	DGRKMSQVETFTSEINAEQYSLQGLCSLAQDLQKRLKQ RTVTIKLNUNFEVKTASTVSSVSTAEIFALAKELLKTEID ADFFHPLRLRMGVRISFFNEBDRKHQHSIIIFLQAGNQAIS ATECTLEKTDKDFKPLEMSHKKSFFDKRSERKNSHQDTPKC EAVNQSPQTSQPFQVLKKNENHLSISENSDDQCLTFCVFCR AQGCISLEALNKHVDECDGPSISENFKMFCSHVSAIKYKKE NVRASSLCEQDYAH
6894	1742	1463	ITLCKPLVPRHQFYETLPAENRIRKFTQYKGSGLLEBOLPHWR DVRDRGHGRFPWQSLPPLPTCLTSLSSFSNNFSAQLTFS VENFM
6895	2379	478	VTVVRLCLASPTALLIMRTVLDLIVDELQSTSEDKRQYTSQT TELLALLALASHKACKLAHLNGTKUDRYAIEIPQDLIAL VRSQDGVIRQOCVEVTSIQLGLCDQDIALLPSSSEGSISEL EQLSNSLKNELNVTGICDCLLATLANSSTNCLLCVRRMFL AMIDVGLFHLKSILRONSALHLSLKRVSFTSKDTGELASFL EFMRQILNSDTIGCCDDNGLMKEVGARTSRTMS:NAABELKQL QSKRESPENFLLEKLVLEHSKDDNDLSDLSVVGLKQMLSE SGDPLPLSQDVVFLSAPESLQNLNENRTAYVLADVMDCQLKS MWTFPTQAEIDTDLVLKVDLIESEKCCSDPLHSEIERSFL SEPSPGRTKTKTGKFLGKHKHETITSSGKSEYIEPAKRHV PPPRGRGCGQGGIRPHIDIFRQKQNTSRPBMHVDDFAAES KEVVQDQIPPPKRLPLKVSQKISSRGGFGNRRGGAFTSQNR FTFPASKNYSRREGRGSSSAQNTPGNYNESRGQSNPNRG PLPPLPLSSTGYRSPDRASRGRGIGPSWASANSQSGSGRG KPVSGSGRGRHVRFTFR
6896	1	555	GNIVIQKKKTKKHITPLENVTIDSIKDEGDLRNWLIKTPKTS FAYVAPATKSEWMMILNKCVVDLLSHSGKTPSNEHAAMVVD SEATVCMRCQAKKFTPNRRHRCRQGFVQCFSEKRLFLPSQ SSKPVRICTDFCYLLSAGDMATQCPARSDSYSQSLKSPNLMSD DDDDDDSSD
6897	3	920	GKGLHRRVNVNGLMERPDNATIAQKPLCSLPAGSSTALASLHNY AGYEQVINEDLLTNCITLLCRRLSPNNLLSHASGLRFLPSV SLANGFIADVDLESEKYRRLGERMFTLGTFLRLAALRTYGRILA YLPVGRVSGKTPASPVVQGVDAHLVPLEEPVSHWTVVPE DFVLVLALLSHLSEMFAPMRCAGVHMLFYVRGVSANL

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			LRLFLAMEKGRMEYECFYLIVYVPVAFRLKPKD3GKGVFAVGE LMVSEAVQGVHPNYFWMVSGCVPPSPKPKQMPFPEEPL
6898	919	346	QKTVTAVASLLKGRQGIYTENERIMGAVIKRPFRLMLVLICW LSNTINRSLLFYLEMGTDINGSSLKFPVTAATKTFWINGLNP QOPLLLAFVIGWTCQSLGFSFKRIQLWESLITSAEAGHPSPL MHNENPAGKVSQWQQTSDALSMLESGSDASTIEHTASESC NNKGGDPAALPTGDL
6899	120	827	MKVRKNCAYLLDNKINMDQISCFKKGLTLNWSHSGILSL LEHGEYTFSLPCAYARSILTVPIVELGQKVSVMCAKTGYASAI TFHTKPFYGGKLHRVTAIEVKNHINTTVCRVQGEKNSVLEFTYS NGETKYVDLTKLAVTKKRVLEKQDPFESRLAKWITDSLES EIDKATEHKTLEBRQTEERHRTETGTPWTKYFKIEKGDGVY HKPLWKIIPTPQAE
6900	3	451	TEVLGSGKIRELESSTALHHALESASLLTMFWRALPSTHPI VLPGKVGESTERELLELRKVSQOQLLOSTTEHLKQANQOKES MEQFIVSGLTRTHDVLKARTLEVRKLLHSEAPSLSPTHHP LADLVGDSWPAIRFQEK
6901	1	201	DDNVQRLQLETFEFTLQQQSTLEQWAAWLDNVQWALPKPYEGRF SPFLAARQFLKMSFVRYHLGS
6902	2	267	QALPFPESQFPQFPQAPSSPESDLTFSSSALGQAGAQGA SDMPFSLDLPLBTMDLSELDPPDLPSNNSDLSLFPENN
6903	1	149	RINQVYKSGPTGILHIVDQWQNPQDSCLFSTVKAESDGI HILK
6904	464	2092	MEASLPVSLSCVLACDVEGKFDILENVAQIKQKSNFDFLLC VGNFFGSTQDAEWEEYKIGIKKAPIQTVLGANNQETVKYPQDA DGCELAENITYLGRKIGFTGSSGLQIVILSGTESLINEPVFGYSF SPKDVSSLNMLCTTSQPKGVDLILTSFWPKCVGNFGNSGSEVD TKKQGSALVSSLATGLKFRYHFALEKTYIERLYPNHIIQEN AQHATRFALANVGNPEKKIKYLAFSIVPMKMDAAELVKQPPD VTENPYRKSGQBSIIGKQILAPVERSAQCFDLMKQGRKRS TGKDSKSSPHKPKRPKPPQPPQPCWCLASPEVXHLVNVIGTH CYLALAKGGLSDHVLILPIGHYQSVVLESABVEVEKYKATL RRFFSKGRKWCVFERNKYSHHQLQVIVPPIECSTTDDIKDAF ITQAOQOQILLESLEPHSDIKQIAGPAAFYFVELDTGKLFHR IKKQFPGQREVLASAILLVNDKSDNRQQISKEDEBTARR FKKDFEYDPLDD
6905	1	226	VSKTGSAETITSHYLFALCVKTLVLYPNENNRVHFEQFDLLAI VAGLVQTVLYCDFFYLITKVLGKKKLSLPA
6906		611	SYDDHNGHIDFITAASLNRAKMSYIEPADRPKTRIAKRIKPAI ATTATVYSGLVALEMIKVTGGYFPFAYKNVFNLANLAIPVPTET TEVRKTKLRNGISPTIMDRWTVHGKEDFTLLDFINAVKEKYIE PTMVQGVKMLYVPVMPGHAKRLTMHKLKVPTEKKYVLDVLT SFAPDIDGDEDLGPFVPRYVPSHDT
6907	2	2228	LKGVPVWAGAFRFSSGEESTSHLMSEKRSQRLARYSQGDDGGS SSSGGSSVAGSQSTLFDKSLRLTKRKSNNKRLSPAPOLGPGS DAHTSYYESLVIHSEWFFPPRSILELHGDNANGEDLRVRRRG GGSESSRASGLVGRKATEDFLGSSSGYSEDDYVGVSDVDQSS SSRLRSASVSRAGSLMMVATSPGRFLRLIYWGATITWYRLTAA SLLDVFLTKRFPSSLKTFWFLPLLLLTCTITGAWYFPYPPGQ TWPVALVSWAKDSRADEGWAEADSSPQCADQRYMGRVHSL ERLRLAALAEPSNSWQKRWKLELRLRQCAPQGGGGLSHED TIALLEGLVSRRAALKEDFRRRTAARIGELSAIRAEQCSSE DLFKKIVASQSESAIQQKSEWQSNQTESQSSSVKELARLE DQLAGLQLEALALAKQSSVAEEVGLLPQIOARVDDVESQFPA WISQFLARGGGGRVGLLQREENQAQRLRESKILTHVAEMQKGS

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6908	3	780	AREAAVLSLITLOKEGVIGVTEOVHIVKQALQYSEDRIGLA DYALESGGASVISTRCSSETYETKTALLSLPLWVHSQSPRVI LQPDVHFGNCWAFQGGFAVRLSARIRPTAVTLHVYKALSP NSTISSAPKDFALPGFDEDLQEGTLLQKFTYDQGGEPQTFTF QAPTMTATVQVSLRIITWNGHPETTCIRFRVHGSFAH
6909	3	409	QVPSAAMLEAVCGLSRGLGSRGLQSCFGAARLIVPRPQSRG PQGVEDGDRPQSSKTPRLPIYITKDGKGFSSFTIGRRPKCD QVPSAVGTDLSSAIGWALRIVTEKSTPASELQIQCTLDV GSALATPCSSAREAHLYTTFKAGPILLEQLQWIDKYTSQLEPLT AFILPSGGKISSALHFCRAVCRAERVRVPLVMQETDAVAKF LNRLSDYLTFLARYAAKMGONQRTKYKNDPSAESGL
6910	1	1068	GRLLAVGTDLYGROSSAPEQELLVQDAPVNSNLLPEKAFSDIP SFYLRGTINMMQAVROAQDQDDRTWDGRLTATATDDCLYA LCVVDTIKRSSQGTGOWNAIMTEEPSELSPAYLISEANRRSRMS LYC
6911	1104	966	LVPVVVIDSTYYGELVIAFLPIVLYNITPHGPDLYGTEPMWVY LINGFLNFVAFALLLVPLTSMVYLLQRFHVQNLGHFVWLT LAPMYIWFILFPIQPHKEERLFPVYPLICLOGAVALSALQHSF LYFQKCYHVPFORYLEHYTVSNMMLAGTVPLGFLSFSRSVA LFGYHGFGLDYFEPFYRTATDPTLHTVPEGRPNV/CVGKWRYP PSSFLPEWNLQFETPSEFSGQLKPFASGFLATRVIPITMDQ NLESPSRVIDISKCHLVLDLDMESTPHEKPISSNKEBWLSLAY RFLDASRSSKLLRAPYVFLSDQYTVVWYITLKFRKAFQRLK KSGG
6912	1	844	GEDAEEMTCNVANLISIPGSSFSGLLAKSPGGGRRHEDEEGSC PEAAEPGQICCDKPEVLEDMNPMTAIVAF AMKPVETHSFQMLPTILSTGSALKAQGVLEDAVCKISSILGSI SGGTDIISCFWGNFSLPVYKEIGQARNLGMVAWNRREGKAVM GESGELVCTKPIQCPHTFNDENGKXKRYAIFS KFGPIWAHGD YCRINPKTGGIVMLGRSDGTLPNGVRFPGSEIYNIVESTFEEV DSLCPQYNKYRBRVILFLKQASGHAQFDLVKRLCALRMGL SAREVPSLILETEGIPYTLNGKVEVAWQIIGAGVAVQGGAPS NFTDLDYRIDPISLQGF
6913	1643	1558	KSHSESHKEELSYGAQASLPLPCDSDF
6914	1251	615	ELAAKCKSAGYTGTLFPRCDLSNEEDLSMPSALRSCHSGVDI CINAGLAREPDLISGSGWMDKFTNVNVALSLCTREAYQBMK ENNVDDGHITINISNGSHVPLDSVHTFSPATVATLTGELR QELREAQTHIRATCISPGVVTPQAFKLHDKMDPEKAATYEQMK CLKPEDVAEAVIYVLSPTAHTIQIGDIQWRTEQVT
6915	254	652	GRSLSPKFTLIWVLISYGGGLIMYGALVLESEFVHVVAISFT ALILTELLMVALTVRTWHMLMVVAEFLSLGCYVSSLAFLNRYFD VAFITTVTLNWKVSATTVVSLPLVYLXYLRKLSPSPYCKLAS
6916	254	652	GRSLSPKFTLIWVLISYGGGLIMYGALVLESEFVHVVAISFT ALILTELLMVALTVRTWHMLMVVAEFLSLGCYVSSLAFLNRYFD VAFITTVTLNWKVSATTVVSLPLVYLXYLRKLSPSPYCKLAS
6917	254	652	GRSLSPKFTLIWVLISYGGGLIMYGALVLESEFVHVVAISFT ALILTELLMVALTVRTWHMLMVVAEFLSLGCYVSSLAFLNRYFD VAFITTVTLNWKVSATTVVSLPLVYLXYLRKLSPSPYCKLAS
6918	28	921	PEAGTQSRWRPDDPDLRFLLSAARCSFQNLPGGGGQVSSCS DIDVPYLLLAIVKS EPGFAEQRAQVRTWGS PADGIRLLELLGSP VGEAGPDLOSIVAMESRRYSDDLWDVDFVFPFQCTLDKLLLIAM LORICHTVSVIVRAQDDAFVHTPALLAHRLALPASASRLYLS VTPQAMPRLKPGGFFVPESEFTEGQVAVASGCTVLAGRLAPW LRAAARVAPFPEYDVTYGLCALRALGLVDPDHPGLTANPADRT ADHCAFRNLLVRPLGQASIRLWKLQDPRLLC

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6919	850	41	QGRRELSGSVFCFPFIOQEPREMDLSEYTHRVRSQQOQLOLOA ELD KLHKEVSTVRAANSRERAKLVFQRLNEDFVRKPDYALSSVG ASIDLQKTSHDYADENTAYFNWRFSFQNYARPTVILEPHVFPF NCFNFRGDDQGVVILQFGRVQLSDITLQHPFSSVEHTGGANSAP RDPFAVFFLLSPFTHQGLQVYDETEVSLGKFTFJVEKSEICTFHL QNDPPAPFPKVIQILSNWGHPRFTCLYVRAHGVRTSEGAEGS AQGPH
6920	1418	591	EAQQPSKVELTLKKKK
6921	2	1711	KNATRSSEQFHHVHNASQPLRKMENLKEBQLCDVLLAAGHRL PAHRLVLSAVSDYFAMPTINDVLEAKGEVVRMEGVDPNALNSIAV QYATVGLVQLKEDTIESLAAACILQATQVIDVCSNPLIKQLHP SNCLGIRSPGDAQGCTELINVAHYTMEHFIEVIKQNRFLLLPA NEISKLLCSDDINVPDEETIFHALMQNVGHVDQNRQGBGLMILLS YIRLELLPQLLADLETSMFTGDLECKLMEAMKYHLLPERR SMNQSPTKPRKSTVGALYAVGGMDAMKGTITTEKYDLRTNSWL HIGTMNGRRLLQFGVAVIDNKLYVVGGRGLKTLNTVECFNPVGK IWTVMPPMSTRHGOVATLEGPYAVGGHDSYLVNTVERNDP EGRQNYVASMSTPSTVGVVALNKLYATGGDRGSSCLKSMEY FDHTRNKSICAPMSKRGGGVAVTNGFGLYVGGHDAPASNH SLSDVCRIDKGDSSWSTVAFSLVRDAVAVCLDGLKLVVGG YDQHTYATVBSYDAQRMWKEVFTNIGRAGACVYVLLP
6922	1075	369	ITPFAGTIRHEVDRERERERERERERERERERERERERERER GLPPAMQKMYKGLAPERDKTLREKVTSAGKIMGGSTIMDULA VNTPKDAQQQAKASENKKLEPLCRQQRKVLKXGKPEQVMSV KGAQERLPTVPLSGMNYKSGGKVALTFLEQQLATGTKEKTEK LPNGSITKNVSEPIEGHEDYHMAFGLPTFASYVAVVWPTQY VDAIKDTVLGKNQYF
6923	2469	1660	LGLFCILPITDLCAVLERDFTLSRESRLFGAVVENAEBCQSQ LPVTFGNKQKVLGKALSILRFPLMTIEFAAGPAQSGILSDREV VNLFLHFTVNPKPRVEYIDRPRCLAGKECCINRFQQVSEWGY SGTSDRIRFTVNRISIVGFLGYSIHGPDYQNIQIIEYEKK QTLQMDTGFS CDGTANTFRVMFKPEIILNNVCYTACATLXGP DSHVGTKLKKVHMTAAASKTVFFTFSSPNNNGTSIEDQGP STIYPT
6924	2210	1235	DEEVICFVEYVLTAFHSGKAGALAKKPNPFIIGETPHCSWEV KDRVKPKTASPSASCHIEHPWADDPSSKVLNPAKQVSHHP ISCFYCBCEKKLLCVNTHVWTKSPMGMSVGVSMIGEVLLRLE HGEYVFTLPSAYARSILTPNVELGGKVINCAKTYGSATVTP HTKPFYGGKVHRTVARSVKNPINTIVCKAGGEWNGTLEPTIYNG ETKVIDTTTTLPVYPPKIRPLEKQPMESRLNREVTYRLRGDI DAATEQKRHLEEKQVBERKRENLTPTWPKYFIQEGDGSGLQ SPLESTLMGLVQSPFV
6925	2	1553	RGGAAGANPEFDSVIEDKTIELMCSVPFSLMGLCANLVESSCAL KCLQMSPSVRLQISMGTSVIVSRKR?SENGYQKEKDLCKYF QDNSESQVRFVHLLIRMCYHQHGLINSVLKPKLQDFITALE EQGLDIARNILSYLDARSLCAELVCKEORVISEGVLKKLLI ERWVETDPLWGLSEHRRGWDQYLFKIRPTDGPNSFYRSYLPKI IQDTETISNWRGGRNLRQICRSNENSGVYCLQDDEKII SG LEDSKIKWIKSLLECLVLYTHIGSVLCIQDERVIVGSSDS TVRWVDPVTEVATLTHHNSAVILHAFSNMIVTSCKDSIAV NMASATITLERVLVGHRAAVNVDFDKYTVSASGRTIKYN STSTCEVFTLNGHKKGIACLYKRLVVGSSDSNTIRLKDIEC GACILVLESGHEELVRCIRFDNTRIVSGAYCGKIKVNDLQALDP RAPASTLCRLTVEHSGRVRFLQDEFGIISSEHDDTILINDFL NVPPSAQNETRSPSRTTYTISR
6926	1	733	SGRVAMDGELQFPFQGGPAPFPPLLPFHMGHGYRDCQSLGAPPL

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5927	2	1484	DGYPLPTDTSPLDGVDPDPFAAFMPGSCFAAATSYSAQVSD YAGPPEPPAGPMHPRIGPEPAGPSIPGLLAPPASLHVYVGAMGS PGAGGGRGFQMOPCHQHQQHQQHPPGPGQPTTPPEALPCRDTG DPSQPAELLGVDRTTEFQYVLFHVCVKPMGLPYQGHDDGVNLFSD SRKALSSVSDASAVTYCYNDV LITLGGTGLMAQNRNANRAHLEEFHYQTREDOSTLHSHRESS CQGFAMATDLSLEQSLVSCCKCYANELLQPRDLASQNFEM YVQVLKRMKNI RNIGVFFYQAQAQLQSERLVSYSVSAAGQLM KKPSCFCEKIHNFSEIEDATNAALLCNTGRIMRICAQAHCQA GDELKREFSPREGLYNKADIDYLLKALRSGLGRDHPAVDSDVN WELSTYTFIMATLQODYAPLSKAQSQSEKEVSAMMKSLKYCD VDSVSARQPLQYRAATHIRLANSYHSLRNQVGDHLEKQHR VLADLHYSKAALKFOLLKADAPCELLVQLERVAFAEFQMTSQNS NVGKLKTLSCALDINVRTEHAFQIQKELIEFQPKSGDAAA ADAPSPINREEVKLLSIFESRLFLLLQSLKLLSTKKTSNN IEDDTLTKTNHYSQLLRATANKTATLIERINVIVHLGQLAA GSAASSNAVO EADILNNLLQVKMRKYSVORTLSHPQLQDYQTNLDLRELECK IGERYITHESDDLPWEKYAGEQGLQYPTHLINPSASHSPTFETE ETENKALGERVSL RPGKGYRDRSFAKEFGDVSARKTSAGGCGGSAATAMPFVING NLWQHDPQDLRHNCNVVAGRPSCSGRPRATQKQPAAGCAG RGFAAGGLCLQPDGQTCVPEPPVPMWHALEKLAGLOFRE QEVNRQQAARTNSTSAQNMRESIRQKALGSLFFDDPGIYTSC SKSGKPSLSRLQSQNLQICFVNDGSGDKSDADDSKTTSTSLD TPLSPMSQSSSYSDRTTRESLSLDDMLTQKQLQAEAKY ALMAKPMKMQVEVEKQNRKPSVADLLPHMPSISEQLMKRSL KPTDLRMTIGQLQVINDLHYSQSLSLNEELVQLLLIRELHTE QDMLVDLIEDLTHAESQQLCHNAEKPAK FKDTANVPSLFOQRNNPREHYPIESQQLKLFYDVITNIVQVAL SYTVVFFVLLSIPSLITFYSSWYCLHILSLVLLLPVKRTQR RNTNTHNLSQSKFDEGENSLQNSFTTNNVCHNQEIASR HSSKQ FVEELNRPACILVAGSAAAGVSAQSFLHCTMASTAPNLQVAT PGQVAMEFVDVTEANARVQDRLKASPAKLESIDGARYHAL LTPSCGALTDLASSGSILRLIQRHSESKPICAVQWVAALCC ATNEDRSWVDSYSLTGVSCELVMAQVQARPLVVDVFDYDSC ACFSASEDAVHVLLDRHLVTGQNASSTVAVCNLLPLCGSRK FVDSPGQGEARERREGIOMNSRMAHSAPKASVSSSPGRK SDMCGCRSLAAGHPGYLSHDKTSLIKYSHQHPSPHQLFSIVR QACVRSLSCEVCPGREGPIFFQDQHGQVFSHTTFLKXSLARGP QRWYSLITIMMDRIYILINSWPELLGKVRGIDLEQGLKALVPSA BQFCQPCQARQNRMTAFTPLHQNRNGNARSILTSLSNDNLWACL HTSEAWLLKACGSRILTEKLIKAPTEDTLVQMEKLADLIESSES WONSKAEEKKAPVLPSTEGRELTOGPARSSSLSGCSQWQPRK LPVFSRLRHMVQVGGRGTAHHLRARRANGLCPLTRLAAGPPTL KITQSVTDSLGGCWLMAQGVGGII SLNLCCTLPFFPHQYVAGYPSDSKESKKPKQSKKQPSGTTKRP SDDCPSASKVYKASDSABAIEAFLTPQQLHIREDCQNGKML DEVLSHLVQGNFLKKBKESPMVCCOBLVQVPTTECFBHVCK CDLQHSFKAQVFCACPRCHDLQNYTIMPHLITQLTLDLFFFGY SKGR DRDSHQCGIRRVALARVSSVKLSKAKITREVMPTIIVLAFIV CWTPTFFVQMVNSVDNAPKESAPIVNMLLASLNSCCNPIYM LFTGHLPHLIVORFLCCASLYLKRRIGETASKSKNSSSSFLS HRSSQSRSCSQPSTA
5928	1085	777	
5929	1749	607	
5930	131	545	
5931	2	659	
5932	2	1131	
5933	1431	890	
5934	3030	2588	

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6935	866	543	NSALYVAGGNDGTSCLNSVERYSFKAGAMSVAPMNIIRSTHDL VAMDGWLYAVCGNDGSSSLNIEKYNPTKXWVASCMTFRSS VGVAVLELLNFPFPPSSPTLSVSSTSL
6936	1347	567	RSHRRQFLSRALLFPKSHVPPPHRLPKSLNVLGLHYSHIPLLT TCLHFLRKRRLQKQEVGLSVETSKPQVPVGGI.SRCKVPQPKATV MEKRLQEAQLYKEEGNQRYREGKYTRDAVSYRIALLQLRLGDDPS LPSPLPNLGGQPALTPQENILHTTQTCYNLAACLQMEPV NTERVREYSQVLERQPDNAKALVRAGVAFHLODYDQARHYLL ANVRQPKIDANVRYLYQLTCSLSSSHRKEKGLVLMFG
6937	1	727	AVFERCKIDNPACFARSHLLDVTCTPQDQCRFTGDCPCDFY DRACPARPCVQWGSFWSCDQCKZPTVTRRSVQCPQNGCA PCPPLERAGCLEYSTPQGDQCHTVPAITTSATNKETKCA TSPHWSHTEDAGYCMFKPTESLTPHCALENPLTMMQVYLRG YTVCDQCPFMNVSLSLCSGDGLSDGNQTLHWQAIGNFRQGS TWKKVRVRDQSCPAVHSFIFI
6938	3	719	NSRKLLEAEKRVDTFMOLKRRQSSSEKENDSUTLTVGAVVDH EGNVAARVSSGGIATKHPGRVQQAALYCGCWAENGTGAHNPYST AVTSGCGEHLVRTLARECHALQAEDAHQALLETMQNKFISS PPLASDVGVLGGVILVLRSCRSAPDSQKQKTLVLEFWSHST ESMCHGYMSAQDGKAKTHISRLPPGAVAGQSVIABGVCRIGEP SELTLQACEASQRHFT
6939	3	810	KVTPRRPQRTSSGHGSSNSVLSGLPLPAMGRIALPHHSGGSS QYSELARDSBATGASASAPISMSISQASAPARTSLKSPKKRA TGLQRRLIPAPLPTDTALGRPLPLPGQWDLPPPLAGSLKEP ELKVYKLDUVERLQRPPTPREAPTQGLACVSTRRLAERROQR LREVOAKHFLKSELAETQGRNLNREGRWQEPFVDFELESPEA EYLAALERATAALEQCIVLCKAHVMVMTCDI SVAAASAI PGFQ EVDV
6940	1188	496	GEMAAQPLRHESRCATPRGDFCGGTERRALDQASPTTSMENDTQ VVGSSPLGPAAGLASEPAAGQQLPSWLQPERCAVFCQAQCHAV LADSVLHAWDLSSLGAVVFSRTNNVLEAPFLVGBEGSLKGS TYNLLFCGSGIPVGFILYSTHALLAALRGHFLCSSDKMVCYLL KTKAIVNASEMDIQNVLSKELAELEKGVLTHTNRLKSLMKRILS ETTDDQKPEV
6941	1	713	SLSEADSDPHGPHTCGHVNAVIGSNVLAALAEQRCALYGYQA VVLSAAMQGDVKMSQYGLLAHVARTLTPPMQASVSEADQL HELAELQITPDLQLEALETNMGHGPVCLLAGGEFTVQLQSGS RGGNCEALAVQAELERWLQPIVDVLFPSGGTDCQDGETEAPG AMVTPELASQAARGLDITATFLAHNDSTHFFCCLQGAHLLHTG MTGINVMYTHLLFLRPR
6942	1	246	GDYVERDYDKPTDTWIMGAPLSNPTNAVGGCLLGDRLVADGGYDG QYTLNIMESYDFQINENWQMASLNTGRAGACVVVYKQP
6943	1	739	PMATGDQAKTALAHVKALTDASIRITWKTLESFSLRSLWRLG HSFAGGSIETELVQGDKTEYLLTALEPKTYIICVMIMETTNAY VADETPVCAKARTANSYGPPTTINQBNQAGPMASPLAGIIGGA VALVFLFLVIGAI CWYVQAGELLTERAYNRGSRKKDDYMEBG TKRDNSTLIRTRGPGQLMLPINPYRAKESEVYHTIIFPNSSSLCK AHPICGYCTTRGDKGCPIDISYT
6944	960	156	VNILLARVYTSLSLTSSEKQGLSVOR.CSTLCMKPKALRT LCVNHFLCWLSPCMLLFTYDPMGEVFPQDPAPHTSAEYKY NSGV.WCKWCMCIYAFSAFYSAILKEFLKELSVRTLYETIAYL PGLTGGLATLSBNLYVVLSCITYGLFSTCTLPYSLLCDYYQ SKKFAGSSADGTRRGMGVDISLLSCQYFLAQILVSIAGLPSTA VGSANGVMYFSSLVSFLGLCYSSLFVIYETIPSDAABEHRPELL INV

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6945	2067	179	EGEDRGLPTMGAALGTGTRLAPWFGACGLPRWTFPTAPAGCC HSPKGPAPVPVPLKKRGYDVTNRPHLNKMPATILEERLQGIHGL IPPCFLSQVQLLRIMRYTERQSDLDKYIILANTLQDRNEKLPY RVLSVSVEKFMPIYITPTGLAQCHGIGITFRPRGLFITTHDNG HLAEMLSWEPDMKAVVYTDDEILISGLDLCYGGHPIVGHCLA LYTACGGVWQQLPVLLVDTGTRNEELLRDPYIGLKQGVKVK AYDOLLDEPMQAVTUKFQINCLIQPEDFANRANRLLKRVKRY CMFNDDIQGTASVAVAGILAAIRITONKLSNIVFGQAGEAAM G\IAHLHLWALS\KEGVPIKA\EAIRKIN\WVDP\KGLIVQGRDH LNHEKEMPAQD\HPEVMSLEEVRVLVKPTAIIGVAAIAEA\FTE QILRDMASFPHERP\IIFALSNPSTKARCTA\EKCYRVTEPRGPF FAS\GSPF\GVLIWEMKTFIPGGRGNNARVPRGWLGVHSFG GDGPHIP\DEIFLPSRAKLPQEVSEHLSQGRLYP\PLST\IR NVFLRIAIVKVD\GYKHNLV\SYYPEPD\KEAFCKIPGSVTPD YDSFYT\VDSYNAQCKAMNVQTV
6946	133	2551	SCSEYSGITVAPGDCPGVAHLLAPSDMSTFESLMALCTDFCLR NLDGTLGYLLDKETLRHPDIFLPSBI\CDRLVNEVVELVNAAC NE\EPHEVSFPNPLFRDPRQPSARHIDIARED\LVQDQADLE AIRKQDLVET\YLTMA\CRKLS\QTS\QTS\HSH\HVP\APFP CYTILLRLKHPGGL\CEDEVLPNPTCQ\LVYDPTFEGSILR F\LLKGRMDNVVES\LLRPLNSLAALDLSIGTSDAA\FLTQ WKDSL\VSILV\YNMDSLDDHIR\V\VOIHLKRELDISDRLS YYKFKLTRVLSLFPQKLGHLMSLD\SG\HMLENCSISKIGR EAGQTSI\EPK\SSII\PFRRGPGPQ\LGVF\QIFCGR\TH IPAYKVSMDKNEEQVLA\EATTEHPPTITSRAINLFDIARIE RCNQLRLALKLITALCKCHKYDRTQVTSAAFLYLTNSEYRS QSVKLRQVQVVLNMGESYQVTVQNRCCLTLCNFSIPEELF QYRRVNNELLSILNPTROBESIQRIAVHLCNALVQVNDHKEA VGRMGFVVMKLCTQKLLDKTCDQVMEPSW\SAWNTIDETPD NCEMFLNPMHKLFLDCNLEFFPEKQELHRNMLGLLGNVABVKEL RQCMWSPFISVFNLLSADQITVSENNQVLSLIPDFGPEA WQVCEPQREVEERWMAATQSDWINSRNNVNSVEFTRLLP GISVSQHWATNALYNLVGVYPTDYCPILLKEGMPLLRDITFM ATARQETEMARKVTEHCSNPFRENNMOTSR
6947	2	1682	TSVSTI\PRGLASARPGSKSRCC\PVWRKSGRAEGRGILMLNVP SQSVPAPRSQORVASGGRS\KVPLKQGRSLMDWIRLTKSGKDLTC LKGRLIEVTEEBLLKKNKDDQWICIRGFPVNVSPYMEYIPGGE DELRAAGSDGOTELFDQVIRWVNEYSMLKSLVGRMAIKGAVLK DYREBEKKVLNMLPKSQVITDLAKEGSPSPSYDWFQDLSVTI /EHIV\TEGYQFLNNS*SSE\FLYSRNNY\GLLSITYW/R*A MHFRKILPGLL/CBSVGKIEIVLQKENTSWDPLGHLKLNHNSL I\PRKDTGLYYRKOQLSGKDVTHDTRFLCMLPPSTHLQVPIQ HVYLLKLPITGTETLIVKPYVPVSGSLLS\EFKRPVLPNNKYIYPLIK IYPTGLTPEDLRLQIGDFVSSSPGNGFKISKFQELDPLA ACTGTFPMVILLNTALVTPSLKRVKLMFNFNTEDDILWRSGLS KLAFDKKLLDVDFVLSAPISNNQKQHSIPALSESFLKNNLQK SKVLVCICGVPPTFGQVRLHLDLNFPSKNRTHSFTA
6948	104	58	PDXGHSFPDVEYFTRCSLCSLCSGGVCKKSSMHGKGVPFHEAKSR CRYSHQYDNRYVTKACYERGESVVPVTKASTDS\PMWGLAKY AWSGVYIECPNCGVYVRSQYVPGNQDVPDVT\VRTEIVHVPGT DGFLKDNNNNAQRLLDGMFMAQS\VELSLGPTTAVTSMLTDQI APATWRPNQSILSCNKCATSFKNDTTHKCRACGEGFCDSCSSK TRPVPERGWPAPVRVCDKCYEAR/TRPVSVCYRGTSGR\RRRT QETVE
6949	152	4656	GLRILCLSRPLTRPGDDSVGSAVASGAGGVGGGGGIKIRTRCH QQPIKPYQQRQQRQILSRVTSVKNIYFGWILQRYPNKNDVVC

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6950	2585	411	<p>SCSTDTSEVPRMPKEDHLVYADEISSNTDGRITPEPAVNT EFPSTTTAST\YPDVLTVRSLYRSHLNFMSLEPALHQPST SAFFIGSSGFSLVKIKDSTSQHDDNDISTTSFGSSRASDKDIT VSNKTSPLPLWSPAEBSHLSQHTATSSKKPAPNLSAFGLTSP VLOHSSILKTSQIGDPPYFGKTTYGGAAAARQSKLENTFYQA PVERQMKQLGAGQSVGTSSDRIQLQSEHMSPLADAKRIP SIVSSPLNSPLDRSGIDITDPQAKREKVSQPPVRLMTFPFV SIATNRSVYFKPSLTPSGEPRKTQRIKKCSQVYKHWSPQCN RQRESGSPSYNPSLPAANGLSGGVGGGGKKRREHAFVASKP LEEEEMEGPVLKISLPITSSSLPTNFSSPEITSSSPINXS QALINKVQMTSPSSSTQPMFKSSPIVKSTEANVLPSSIGFTF SVPVAKTAEGLSSSSTLEPIISSAHVTVTNSNCKTKTPEDC EGFPFPAELIKBSGLDILKSPGSPKIDNSAAQATTSPPVY TRPAISSSSSGIGFGESLKAGSSNQCDCLQNKVTNCKIAC QAALCSPRDTAKQTGTETPNKSGKTLISASGTGFGDKFKPVI NDCDCLVQNKPEAIKVCACETPAPGTCVGRALTLTVSSAET MTASSSSCTVTGTLGFGDKFKRFIGSMECSVCCVNNADNKC VSCMSKPSVPPSSSSTVPVSLPSSGSIKLEKFKPFGIWD ELCLVQNKADSTKCLACBSKVCSCGFKGFTSSSSSSSAA SFKFGVSSSSSGPQTLTSTGNTKFGDQGFYGVSSSSVYHF MSEGF*FSKHIVGPKVSSSESKPEELVKDSDNCNFKGLG SNPVFLTPFGQVNSLQBEKKEELLKSSCAQFRFGTGVINSTR VPMTITVTSNKSSNMLGTETIKSVSVAPLKQTSBAKEMPA TKGGSFGQNVBPASLPSASVFLGRTEREKQCEPVTSTSLVFG KLIMKEPKCQPVTSFGFGQRTKDNSSKSTTSFMTKPSKE SEQPAKATFAFGAQNTTADQGAARKDLISYANSSSSSTPAT AGGQ\IFGSSTSSSNPVPATVPQGSNPGSS\AFGNTAESST SQSLLPQGSKLATTSSGTAVTFPFGGASSNNTTTSFGFG ATTSSSAGSSFPVGTGSPASAPAGANQTPPTFGQSGQASQ NFGFGSISSTALFTFGSPAPFTFGTVSSSSQPPVFGQPSQ SAGSGTTPNBSAFTFGSSTTNFNTNPSGVTFTGANSSTP AASAGPSGSGFFFMQSPAAFTVGSNGKIVSSSGTS*SGRKK TAVRREK</p> <p>PRFGSRSLCRFAGREGKAVAGGLSRTTAT*IMDLHVQDTS DVPEQRDSCKCKVWTHEEDQLALVRQPGQDWKFLAHSFNNR TDQCCQYRMLRVLPDLVKGFWTKBEDQVILVKKYGTQWTL IAKHLKGRGLGQCRBRWNHNLNPEVKISCHTEBEDRI\CEAHKV LONRWABIAQMLPORTDNAVENHNWNTIKRVDGTGGLSESKDC KPPVYLLLELEDKGLGQAQPTGGQSLTNWNPVPTTKERN SEELAAATTSKEQBPIGTDLDVARTPEPLKEPKREDQESPP RTSLPYKVVVPAANLLIPAVGSSLEALDLISLEDPAWCDLSKF DLPERPSAKDSINNSLVOLASHQQQVLPFRQPSA\LVPSVTEY RLDGHITISDLSSSRGELLIPISPTSEVGSGIGTPPSVLKQRK RVALSPVTSNSTSLPLDSNSLTPKSTPVKTLFPSPQQLFN NWKQDTLELBSPLSTPFCQKQVVTPLRLDKTPLHQKHAAP VTPDQKYSMDN\HPTTFKALRLKYQFLMLPCTFLLRELDKE VLRSKAGIELIEDIRPEKQKKGKGLRRS\IKYVRSILADTV DEDMKMMSTLPKSLSLPTTAPSSNSS\PLSGIKEDNSLLAQGF LQAKPEKAAVAQKPSHFHTTAPSSANKTVACGTTADQLMPQ KARQLLGLRKLPSHTSRTLLIS</p>
6951	1940	239	<p>AGPDDTKRSLQALYQJLSFLILALTELALAFATQSPSPRESL QVLPSGTTPGTMTVAPHSSTRHSVWVLLHPDGPFSQAAPMA TPTPRAGHPPT\TPSPSLRQ*PPILKAP/SSTGEAPAMAT TSSKPEGRPRGQAAPTILLTKPGATSRPTTAPRITTRPPRPF PGSSRKAGNSRRPVPAPGGHSRSKEGQGRNPSSTPLGQKRP LGKIFQYKGNFTGSEVEPEPSTITRPTLWQYSSSQPGQPTVAT</p>

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			TVPSNTSNAPTTSLSGPAKD KPGLRKAQGGGSTFTSQGGT PDA TAASGAPVSP/PSCPSAFSA PPR*PTGWPQP*LLAYCYP/CT SRFLSTSSUVFTAATGPTPAAFDTSVSAPSGI PQGASTPQAP THPSRVSESTLSGAKETVA\PSPP*PTGCVLTSQMYQPQAIS STAMSPPOPSLQQGTSPPMFPROTNRSTPPSA*ARWISPG*G WPSACSPPP\LCRAGGVLLHEEEDRQPGQPEAYGNTHHPGT TQQQAC\RGAAGETIPVPLKFLRTQLSESPANGDYRDGMVPC
6952	658	304	PESEGESGEMTORYTTHSQLEHLQSKYIGT\ATPTTFPGSGG/CS PTPRVLVLLHGPPLRPSQLLRHGE*EQSASPLQDGKDSALWT ASRQARGELRLCLTAVRSTSEVS PVOQSS
6953	1512	349	NKQKTRALASGKHVPFKQ\TNPKS/VHCDS*G**NRRTQDS FSHPFRGKMGVV\KLEKLENTQEVGQNEG*EHEVTGNLNSD PLLELCQCLQDLCOSREQLIAHVYQHTAAV\SAKSY\CPVC GRALSSPGSLGRHLLIHSDEQSRNCACVCGARFTSHATFNSKLP EVLWMSLEFTVHNEGSSABOKD\AFSPFVYPAQILLVNNCMA YRKLEAQOTPSVRKWLRRQNEPLEVLRQLREERTAKSRREN FTPEEVRMRDRERAKLRQMRQTDQGRARLQDRDRAMLKR A\TTPKFKQARLIRERAKRLRLKQKCMMLRAQGGQDPSAVA ALANEMWPGLPVSGVLDLQGLLGEATFESQSSSLH
6954	819	1	PPFFFTTSHIPREXGT*AG-KRSDGSESEFFEQ*ATRAAQN *PQR*RWTEGNS PQASAVA\CPQOASPAARCP*PSRRRLP PQARPPAG*AAPPTKPLAGASAPQGAAPLSPAPPLIETR *CAGAAAGRPRRORS PRPTPGGCSWS EPTTPAVSASATQPS DAG*AGGR*GQRQRPSTGR*PPGVGAGSRHREOTT PQNPHPR AS*RAQWQ*PGE/REWL*EPQGEEMS GGGGAGPFGQVSS VMQAMSTGI
6955	1968	782	PPGRRCVRAQVAGAPVGHGTRAKQVTKGRRRARRITPFLQD NRSPGWSWIKTEDGWRCECSOKLERENNHCNISHI\NSD GEIPFNNEEHYAS KRRKKDHFTND\TNQSPYRKWVYVKESTK EBHGQYTLGEAFNRLDQSSAIQD\RRFNYYVKLLQLIAKSQ\TS LGGVAGKNYFN\LDKIVQVLDHRHNPRLIKD\LDQSSSTLCIL /N*RSREVCISGRHQLDLP\INTISRLATATQSSDD*ASE\NG LTL\SDLPLHAYN\LVPSDQWDTITLQQTPTPLM\SEDRQLX KKLCQYH\PAEQFCRILLSEKHTIEWELMTALQNYFAKEQ QDTHLHPCRHCITLFWKDSGHPCTAADPSCPTPVS PQHTIDLXK F
6956	8005	3839	QTSSTISFASPTSPPVLGSEVLQNSPDLNNGSLADQEEEMVQSS DPPPSLTQPAQDQSSSTIQLHPATSPAVSPPTS PAVSLVVS PAAS PEISPEVCPAASTVVS PAVSPVVS PASSAVLPAVLEVPLTASV TSPKASPTVSPAAAFPTAS PANKDVSSPLETTADVEETITQEGLT ASGSGDVMMRR\IATPEEVRPLQHGWRREVR IKGSHRNQGETW YYGPGCKRMKQFPEVI K\LSRNVVHSVREHFSFSPRMPVGGDF BERDTPBGLQMVOLASABEIPSRQAITKGRGRPNTEKARTKVE PKVKRGRGRRPPKVKITELLNK\DNRLKLEAQETLNEDEKAKI AKSKRMKQYVQKGCQPTT\QQQARNRKRQETKESLKQKRAKKS KAKKSKKTKQKLEKIVYKREKKEVMEKEEVEVTKAPACKAD KTALQORRLERKROQHLEEMKKTEKMTDHPGLPFPSPV GLTLPSQASDCLT\TYEFLASRSKVLSPAPVSPVSLVLEHQB LCQGDILGEVQDLLVRL\KARLMDPGFSPYCSGLIKLEKXVET PLTRDNVSEILRCFLMAYGVEPALCDRLTQTPQDQPFQOKAV LAFVLVHNLGSTLI\NIDKTLRSMSSYRINKNTVEORLRLXLT VIAKTRGSEVEMGPEEC\LRGRSSRIMEVTS*GMREERESIESI AAVPGRRRRRDOEVDATASSIPELERQIEKLSKQ\LFRRKLLH SSQMLRAVSLGQDRYRRYVWLVYLAGIFVBEVTGNLVPEEVIK KETDSLVAANASLNPALFSMKMELAGSNTTASSPARARGPRK

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			TKPGSMQPHRLKSPVRGQDSEQPCAGLOPENOLHAPAPQPOFOLQ LQLSHGKGFLEQBGSP LSLGQSQHDLSQSASFLSKLQTSQSHSSL LSSSVLTDPSSSGKLDPAQSPPEEPPEDEASSPDPQALWPNISAQMPNCNAAPTFPPAVSEDDQPTSPQQCLASSKPMWRPBAANPCSPVQESTPLAGLAFKRRAGDAGMMPQSP TGLGQFKRRGRFFSKF TKQMBQRVLTQLTAQVPPPEKSCSWWWIRDEMLDMLKALHPR GTRKALHMLHNRHDFLQVCLRPADPITFROLPAFQBSGIM SWSPEKTYETDLAVLQNVSELEQRVMSDLQIRGWTCPSPPOST REDLACYRHLSDSQSDITWRGRGREGIAPQKTTNPLDLAVNRL AALQNVERRYLREPLWPTHEVLEKALLSTNGADEPTTTEIS YEITPRIRVWRQTLCRCSAAQVCLCLOQLERSIAMEKSNVKT CLVCRKGONDEP LLLCDGCDRGCHIYCHRFKMEAVPEGDWFCTV CLAQQVGEPTQKQPFKRGQKRSKSYLNFSEGDGRRRRLVLR GRESPAAGPRYSSEGLSPSKRRRLSRVHSHDLTFCEIILMEME SHDAANPFLPVPNPLVSGYRRIIKNPMDFSTMRERLLRGYTS SEEPFAADALLVFNQCTFNEDDSVQKAGHMRFFP\SRWEEF YGQKQGSVVRGWRGVTLWHLPPPTQTCTCHEFLLMLPWQTVQV RYVDFP
6957	82	3514	HTVAFPEPTKKEENVPAPAFPPPEFSFKERAGTTPAKDWTVL ETTPPEEQAKQNMSSQLILFLEKKNQVGVGDITPIAKVKA EQLSEKPTINGSRKWDLASKAGHQLKKEPTEHSHRPTTFBQ ITKAKNFAGNYCEVTVYKDKFDCSFTPLEVSESTCTPWIDIR SAPIKSGEGQEDAGEIDFSGLLKRRVRKQSEEPQVDVAKLLKN TKPSEYKIAFYQSPSCSMLKRLKRSIREKKSAFAKILCD VYQVDKGRVRFPVELADPKLEVKWNGGELRSTKYIFEDTR CQSLINLNCQMTDSEYVITAGDEKCSSTELLVREPIWTKQL EDTDYCGRVELECEVSEDDAQVKNFQNEBIIIVQTRYRIRV EBGKHIILIBGATKADAADYSMTTGGSSAKLSVDLKLKILT PLTDQTVNLGKEICLKEISENIPGKWTGSLPVQSDKLVVH KGRILKLVIDHALTEDEGDYVPAPDAYNVTLPAKVHVIDPPKII LGGDLADNTVYVTKGRRLRLIEFISGEPFKAMNSRDKAIMEG SGRIRPESDPSPTVIDIAEDDSGVYHNLKNFAGBARASIK VVVVDFPDPVAPVTVTEVGDKNCTIMWEPDQSGSEILQYTB RKKKQSSWMLRLNLDLCKETTFEPKICHEGAVYEVRIANVAI GISKSPMSPRPFPVLAVTSPTLLTVQSVDTTVMTRKRPCHI GAAGLDGVVLEYCFEGSTSARQSDENGRADVLPADONIVANKO LIDKTKPTITGLPDAKIFVRVAVNAGASPEKPYQSQPIVLKE IIEPPKIHSPKHLKQTYIRRVGDRVILVIPPQKRPRLTWKGD GARIDKQINIRINSETDITIIIRKAERSHSGYQLQVKVDKFSVE TASIDIRIIDRPGPQIVKIEBVGGRNVALWTPTPKDGNALIT GTTIQADKKSMENLRIEHLIEPVPHTELVLQNYEYRVSFSEN MGLSEDAITWKSBAVIARDGKIYKIPVYEDDFSEAPMTQPL VNRLLCSGYWATLNCSSVRGNPKPKITWNGKVAIVDDPRYRMS NGVCTLEIRKPSPYDGGTYCCRAVDLGRVEIRCKLSVKVLAQ
6958	274	1663	PFTRSVKHSQSGSSAMDFSVKVDIEKEVTCPICLELITPLSL DQHSQACQCTIAIKESVIISRGSSCQVQTFPPQNLKPPNR HLNIWVVRKVEKMSRQCGKQVDFCHGKQIKLQFKBEKVKIC WUCLESQHQHQQTFRINRVKSCQKQLQVALQRLKENGCAK LBDIDIRQERTAKWYIQIERQKILKGFNEMVILDNBEQRELOK LRESEVNVLDNLAAATDQLVQQRQDASTLISDLQRLRCSSVEM LQDVIDVMKRSRWTLKKPKSVSKLKSFRVVDLSGMLQVLKE LTVQYVYVDMVMPGATSNNVALVSDRQVKTCTCFKSNPN CDFSAGVFGCQYFSGGKYWSVDVSGKIAWILGVHKSISLAK RKSSGFADPDSVNYSKVYSRYRQYGVWVIGLCNTCEYNAPEDS SSSDPKVLTLMFV\LPVVLGFS
6959	1	1469	SLVHVVRFGRGIDFPYLFQQLTHQQQRCISVTAQGVQVCHSS

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			LQPQTGPNQSSHLSLLSSRDYRMLSSFNENFWQDRFNLDPNVT WTELEDRDGRVYPHPQDLLAALPALVLLAMRLAFERFIGLPLS RWLGVRDQTRRQVKPNATLRKHFLTEGHRPKPEQLSLLAAQCG TLQQTQWRPFRRRNQDRPQLTKKFCASWRFLFYLLSSFVGGLSV LHESVWAPVPCWDRYPNGLTSCPADSEA)SLYTWYLLGLG FYLRLIRLIPDVRKKGQSSIKPRPHYDPS)TADPKQVVIH HPVAVILMTFSSYANLLRIGSLVLLHSDSYLLEACKVNTMQ YQOVCDAFLFISPVFFYTRLVLPFTOILANTTYVESILNNGPFF GYFFPFGLLMLLQILHVPWSCIILNMLYSFMKKQKNEKQIRSDV ERSDSEEEAAAQCEPLQKNGTAGGPRPAPTDDPSRVRAGRLTN RHTTAT
5960	387	2069	AKNAREKMQEPVTRSPFVRGRPDLSLTSTVRRRLYLAUSGRS HLEPEEKQALKRLVEBEPKMQVDEASREDLKLTKGKRPPPT PCSDPERKRFRPNSESESGSEASPDYFGPAKQVVASRSHTEP KEENPRRA)SKAVEESSEDEERORDLPQORGESESEEEKGYKK TRKKPVVKQAPKASVSRKQAREESEESEAEFVORTAKVEGN KOTSLKESQSESEELIQAQKQORSEVEESEEKEDERXGDWK PRTSGNHRKSAREESCKQQAQRLGSDSESEKQEAASG DQSGRDEPVPQKSEEDRTQKGGKRLSGSESEEDSGKEPETA KGRVWRLG)TSCSEESLDSESDSESESESESESESESESESE SRKGRTRSSSSSDSGPEAKGGKAGSGRROED)HAWMLKIR ACGAHNRKYLKCCSCSHKRLSLRALEALGKQKTPS)GKCR ALKOREEAAEAVASLDVANIISGSGRPRRTAWNP)GEAAEPGE LYRRTLDSDEERPRPADPMSHMRGIISDGSIN
6951	340	1646	RWSSPTMKPNFSLRLRI)FNLNCWGTPLYLSEHRAHMRRLGDTL NOESFDLALLEEVSQDQPYLRKLSP)TYPAHHRSGIIGSG LCVPSKHP)IQELTQHIYTLNGYPTMHGQWPSGKAVGLVJLH SGMVLNAYVTHLHAEYNRQDIYLHARVAQAWELAQF)HHTSKK ADVVLCCGDIAMHPEDLGCCLLKEWTGLHDAYLETRD)KGSSE NTWPNKNCYVSQELKPPFPGVRIDYVLYKAVSGFYISCKSFET TGTGDPHRTPLSDHEALMATL)FVRHS)PQONPS)STHGP)AERS PL/(HCVCLKEALDGLGLGMA)QARWNA)TFA)SVYIGLGL)LL LALLCVLAAGGAGEARAILLWTP)SVGLVLMAGAFYLFHQVENG LYRAQAE)QHVLRAREAQDLGPEPOLYALL)LGQOEDRTEQ
6952	340	1646	RWSSPTMKPNFSLRLRI)FNLNCWGTPLYLSEHRAHMRRLGDTL NOESFDLALLEEVSQDQPYLRKLSP)TYPAHHRSGIIGSG LCVPSKHP)IQELTQHIYTLNGYPTMHGQWPSGKAVGLVJLH SGMVLNAYVTHLHAEYNRQDIYLHARVAQAWELAQF)HHTSKK ADVVL)CGD)LNHHPEDLGCCLLKEWTGLHDAYLETRD)KGSSE NTWPNKNCYVSQELKPPFPGVRIDYVLYKAVSGFYISCKSFET TGTGDPHRTPLSDHEALMATL)FVRHS)PQONPS)STHGP)AERS PL/(HCVCLKEALDGLGLGMA)QARWNA)TFA)SVYIGLGL)LL LALLCVLAAGGAGEARAILLWTP)SVGLVLMAGAFYLFHQVENG LYRAQAE)QHVLRAREAQDLGPEPOLYALL)LGQOEDRTEQ
6963	374	2618	RVTPLLLKLRKPKTAENQKASEENIT)TPGGS)SAKPG)PCLN EAVLS)DAL)HSTH)TSH)HAHTG)SSDCD)ISCKGHT)HSHIN LHNS)SV)LT)E)NQ)R)N)G)H)C)D)Y)R)H)SS)N)K)A)G)R)C)LA)G)S P)P)Q)D)K)LL)G)S)D)E)I)E)P)S)V)S)G)S)G)K)I)D)T)H)S)G)V)E)S)E)A Q)I)L)T)A)S)I)Q)I)T)N)I)D)E)C)T)R)I)S)Q)I)G)D)Y)P)G)I)Q)D)S)Q)I)P)R)G T)P)S)S)Q)S)S)D)T)S)Y)S)Q)S)H)S)D)I)Y)S)A)C)S)M)Q)N)G)S)E R)S)F)S)G)A)V)S)H)H)E)T)A)G)L)P)D)H)H)E)D)P)S)W)I)T)H)E)S)Q)M)E)Y)I) S)T)P)E)T)H)C)K)Q)P)R)P)R)I)Q)T)L)G)N)I)H)I)K)Q)M)E)D)I)D)Y)G)Q)R)Q)V I)L)E)R)N)S)E)C)T)E)D)T)Q)A)G)T)S)E)P)K)E)S)F)D)S)G)S)S)I)G)T)E)P)D)S)V E)Q)P)G)P)G)A)R)D)S)Q)A)E)P)Q)P)Q)A)E)A)P)A)G)G)P)Q)N)Q)E)T)G)A)S)S)P)E R)S)N)K)E)M)D)S)T)V)T)S)S)S)D)S)V)L)Q)Q)S)V)N)T)S)I)G)Q)P)L)S)T)C)Y)L)R Q)T)E)T)S)N)K)M)P)I)T)L)S)N)T)Q)I)G)I)T)A)N)T)Y)I)A)P)A)F)T)O)P)A)G)S)G)P)K

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *-Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			PFLESLPOLLAGQQTQFTVTSQFGLSTFTAQLPAPQLASSAGH STASGQGEKKPYECTLCNKITFTAKQNYVKGHVFHTGKPHQCSI CHRSFSLKDYLIKVMVHTGTGRAVQCSICNKRFTQKSSLNVM RLRGEKSYECYICKKFSHTKLLERHVALSSAAGTTPAGTTP GARAGPGVAVCTEGTTFVCSGCPKAFQDQBGQNDHMRHVSOG SGRFFFFFSNTDVTFTKAVTNRATAGSSNHTKMSIGKILL OIFC\NCSMFVVI
6964	1	178	NVFTEPRQGWKTSAHGQKHPQFSMSLPLLALEVCSCGS SGSLGYNIQNH\GLGRNPLVLGQMRRTSPFLCKRSDRFR PQKKEVSQIQKA\QAMSLYDVLQQVNFHSHKALL\CMEDL PGPTPHFTSSAAGTPGDLLAGDGRRRSWQWVIEGSTLALRY FQESISTIE
6965	757	208	ITTALGVRNPGPCPCPGCGAGPGLFPLTALALELKRAGSSQ ALRSRGTTATACRLDNKESGWSGALLSGERLDTWICSLGSLMV LSGVFPLLVIPLENGTMLRSAGAWRLKQLSLFALGSLGNVFL HLLPEAMAYTCSASPGGEGSLQQQQ\GLWV\AGILTFALAK /HVPQGGGGDGPQGPQPHCCRRAGPRLSPGAGCRARPRCR GP\DIKVSGLMLLANTINDFTHGLAVAASFLVSKIGLITLMA ILLHIEPHEVGFALLLQAGFDRWSAALQSLTALGGLLAGGFA ICTGSPKGVETAAWVLPFSGGFLYIALVNLPLDLEEDPW GFLFFKYLILDLASSRIETPCDWELSSNGFESLSEHIGFS TWMKMLLEAGAVNDVLPVAVRNFVSKLRCADVAVINVTX ENRYCLLEAGLVKVGAFDQVDHILQTFVHETVSYSLDTLA SPAYREAFGR\LLQRLEALKRDOQS
6966	820	1867	RGCGGGGPGPARERRRPGSPERTMBAAGSGRCFQPHFGLQKT LEQFHLSSMSLGGPAAFSARAG\TAYKESAKEAGAAVPAVP PAATEPPVLHLPAIQPPPPVLPGPFMPSPDRSTERCETVLEGE TISCFVVGGEKRLCLPOLNSVLDRFSLQINAVCDIELHYCSR CTADOLEILKVMGILPFGAPSCGLITKTDARLNCALLYGGAYP PPCKKRLAASLALGLELSERSVRYHE\CPGKCKGL\INPELYS SPSAACIQCLD\CRIMYPHFKFVHSHALENRTCHMGF\DSA\ NWRAYILLSQYTGKEGEARLGR\CLDDVKEKFDYGNKYKRRVP RVSEPPASIRPKTDDTSQS\APSEKOKPSWSLTLAGSSME LGCYHPGRGLSAPWMSIAYASAGLADPOLALCLIVREACTVTS FETAVAPVALAPAQQVQVSSPPCAAUSVRAPEPLATCTOPKX RKLVDTPGAPETLAPVAAPSEDKSSEAEVESREETSSLS LSSPSFTSSSSXDLGSPGARALPAPVDAAPAPCAPSGLEAEL EHLRQALEGGLDTKEAKEFLHEVWVRVQSEKLSAALQKRS LHQLEFLRVAKKRLREATAENLNKREIFLRARENKIMKRA NESRLRLKRELEQARQARVCDKGCAGRLKAKYSAQIEDLQVKL QHAEADREQLRADLLREAREASHLEK\VK\ELQEQGLPEARPE PAGSEG\AAELEP
6967	162	633	AGTHGRLLKVTTSSEQALAGRLEREQKILKYOGSATQVFORQA GELOKSVLELTSQITIGANPDFAIMNCRVENLQLETKCSPEEL AALVKAEGLFLESCLRVNPKSYGTHHRCWLLGLPEFNWTHLE ELCARFLEVDERNFCHMDYRRFVATQAAVPAKELAFDTSLTR NFSNYSSWHYRSCILLPOLHPQPSGPGSRLEDFLLKLEL\QN AFFDPNQSAWFTHWLLGRADPOLALCLIVREACTVTS SEPLVQSRKEILLAVDSDPLVREHRTQXNRHPSHWLQDLE ASINDQJLQPHFTVAVITAGDVOKSCVLLKRGSGWCRDSTTDE OLFRCKLSVEKSTVIGSELESCKLQSELEPNKWC\LTILILA RALDPLLVEKETLOYFTQL\WAMPKRAY\LDLISKPLLENS VLEMEYASVRVILHAKKDLTVLCHLEQLLTVHLDLSHNRRLTL PPALAAALRCLDEPPHPT\VLQASNAIESTLGVNLPRLQELIL CNRLQCPAVLQPLASCPRLLVLLNQNPLOQAVGLLEQALEL PSVSVLT
6968	1	2265	
6969	1855	118	

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6970	3	1528	SFFPLLSSPSAVGEKVAVAPCGGSECCARARVATQLPLNE GFLSRISGLLLCRWTCRHCCQKCYESSCCQCSSEDEVEILGPFFA QTPPLMASRSSDDKDDSVHTASEVPLTFRNTSPDGRSSSDTS KSTSLTRRRISLESRRPSPFLIDIKPIBFGVLSAKKEPIQPSV LRRYTPDDIPRKFEPHLYSLDSISDDVSLTDEILSKYQLGM LAPSTQYDGLHNLTVRVIEARDLPPFISHDGSKZMAHSNPFV KICLLTPDQRSKQGVKRAQVQPFTEBYTIEIPFAORRLL LTVVDFDKFSRHCVIGKVSPLCEVDLVKGGHNNKALPSSQNE VELGELLSLNVLPSAGRLNVIVRAKQLLQTVDSQSGDPFVKI QLVHGLKLVTKKTSFLRGTIDPFYNESFSFKVQRELNASLV FTVFGHNMKSSNDFIRIGVIGVQYSBGPSENNHRRNMLNTHRT AVEQNSLSRSRAECDRVSPASLEV
6971	37	3702	ACFFVPGSRFSFKLI PRHGLVNMGGSGKIPGVSAAKIKRWKQHS SDSNPAICRRHQARSRRFSRPSGRSDLTVDAVKLHNEQSGL RLGKSEAPETPMEEBAELVTEKSGTFLSGLSDCTNVTFKVK RFWESNSAAHKEICAVLAAVTEVIRSQGKETETEFYALIRKA AQHGVCVSLKSGSEMFEPKAPAHHPAAISTAKFCIQEIKHSGGSK EATTLHMLTLKLLDLPCFPEGLVKSCSTLLRVMTLSHVLVTA CAMQAPHSLEPHRGLSTLSAIDIAQITLALDYVPSINDLQPL LMLKPMKALHNLVELQNDLGLHLPFTFGPATCLSPHSFV LTAATQSKLILKECVAPHMAISVTSASBPASQVPSV EBGLTYKHAANSVLQLCVFPEACQRAHVNVRKILQSLCDL RLSPHFHTAALDQAVGAAVTSMGPVVVLQAVPLIDGSEETLD FFRSWLLFVIRDHVQETRLGFTTIFYFLDANTLKSQAMDLAQAG STVESKIVDTLQWQMTLLPGFCTRPTDVAISFKGLARTLGMAI SEREDLRVTVQALRTLITKQQAEDRAEVSRAFNFLPILPN LYGQVPAAGDTPAPRAVLETLRTYLTITDTQLVNSLLEKASE VLDEASSDFTRLSVLDLVVALAPCADEAAISKLYSTIRPYLESK AHGVQKKAYRVLEEVCASQPGQALFVQSHLEDLKCITLDSLRS TSSPAKRPRILKCLHIVRKLSSAKHKEFITALIPVILCTEVEVS GARKNAFALLVMEGHAFRFGSNGEALQCLVLIYPLVGAVT WYSCSLALHILLPEEGLLAGTSVYBOLLENVCLLASRTDRV KSALEPTKVAVTVMVVAHLAKHVLWEALQKLEDNRHFRPMK LNLNPL/KFPIP/PGILTWGKAVGPKYHVRVNIKRABAK RHRALESQAVEREEEEEEEPKAGKGSSTEEILADSEDENE EERSRQKEORKLARQSRAMLKBOQDEPLNTLDPKQARVLA TOPQPGGRGKUDHSFKVSDAGRLITREDEGNHMEERAGKRGD REMADEMEDVILRNKQKQKQKQKRAEESLEIPQYQAGSGI HRPVAKAMPAGAEYKAKKAGKGVKKGRPPDYAIPLNRSKLN RCKMKLQGGP/KGLVKAQSGSQQVGHKNRKRDRP
6972	2179	973	PGGAILPLNRRTRPREATVPRGAAGQRARSABGRIPSSQSFS PAREGATRSPPPRPRPARPGPSARPLLRSADGPGATVSAAA AAATERARRGATGAQGLSTLGHMFLPFWFLYLLMKLQCRSTP AITLESPOIKYPLKLLDRHETISHDTRFRFALESPOHILGLPVG QHILYSARIDGNLVKRPYTFISSDDDKGFVDLVKVFYFDTHEPK FPAQGMSCYLESQIGDTIEFRGSPGLLVQKQKPAIRPDKK SNPIETVSKVGMAGGIGITPMQVTADEKESDNRHFRPMK ANQTECDLILRLPSELEENKHSARKFLNYTLDRAPEDVQCGV FVNGEMTRDHLPPPEKEPLVLMCGPPPMIQVACLFNL/DIVGH PIERCFVF
6973	1	1964	LQPCRRHKLRAQKQGRPARGVDMVLCPTVIGKLLHRRVLAASA SPRKHGILSNAGLRFEEVSPKSKKKLDEASFAIPYGYAMETAKQ KALEVANRLYQKDLRAPDVVTGADTIVTGGILLKBPVQKDAY RMLSRFE/SOREHSVFTGVAIVHCSSKDHQDLTRVSEFYRETKV KFSRLSEKLLMSYVHSGPEMDKAGGYGIALGGMVSVESVHGDPL NVVGFPLNHFCQQLVLYXPPRPEDLRRSVKHSIPAADTFEDL

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			SDVRGGGSEPTQDAGSRDEKABAGEFGATAEABCHRTRETLF PPTRLLELLEBGMPLSKGLLTACKLKVFDLLKDEAPQKAADIAS KVDASACGMERLLDICAAMGLLEKTEQGYSTNTETANVYLSADGE YSLHGFIMHNDLTWNLFITYLEAFIRBGTNQHHRALGKKAEDLF QDAYYSQSPETRLRFMRAMHGMKTLTAQVATAFNLGRFSACDV GGCTGLARELAREYFEMQVYVFDLEDIIELAHFQPPGQAVQ IHFAGDFFRDLPSAELLYLCRLIEDWPDCKVHKLGRVAVSSC KPGAGLLLVETLLDEKRVQAQALQSLWMVYVEKRRSIEGY QCCLLEHGFHQVGVVHLGGVLDALILPKPKPPEAQACSL
5974	3082	2172	ESCAAFASFAFRPPELFPAPPSRRSPGGRGATASLQCLLSVRK LLAARPLGLTKYQATMVYKTLFALCILLTAGWVQVSLPTSAPI.SV SLPTNIVPPTTINTSSPONTADTASPNGTHNNSVLPVTASAP TSLLPKNISIESREBETISPGSNWGTINTDPSFGFSSSTGGVH LTTTLEHSLGTFENGVAATLSQAAEPTLISQAPASPSLSL STSPPEVFSASVTINHSSTVTSOTPCAPTAPESPTERSSDHT PTSHATAEPVPOKRTPTTVSGKVMCELIOMET,PPPPFG
5975	2	500	RPRPTVHCCKWALKLKTAMETLINVPHASGSGDKRYLSKKEL KELLQTELSGFLDVKELML*ATEALKTFEAA*KSPLICSSSSS SLPPAPQPPPYL*LSAVPFFIHLPLFLPPQAQKVDVAVDKVMK ELDENGDEVDPOEYVVLVVAULTVACNPTWENS
5976	1215	970	GCCL*VAYGTGTSFVYFAHPEETVEGQASVGRDIPHTEARL NMMEAGTLAKANTPGLCLRGTCVMLGTFWSEPQCTERAVDQKN YWTGDVATNMEDGQCFKIVGRSKDMLRGSEETIYPAELEDFFTH PKVQEVQVVGKIDDRNGEITCACIRLQGBETVVEETAPCKRG ISHFKIPKYIVFVNTYPLTISGKQKFKLRQEMREHML*IKQQ ACPGRLA
5977	1298	588	SLFININLLSNQIRKTSFGMCSEPIGSDITDQKGLKTDFDA* ANKSKKHEVINGNRTVEPPECTQAVFGMGCFWGAERKFWVLKG VYSTQVQAGGYTSNPTYKEVCSKTHAEVVRVYVQPEHMSFE ELLKVFWEHEDPTQCMRQNDHGTQYRSALYPTSAQNEAALLS KENYQKVLSEHGFQITTDIRGGTQFYASDYHQQLSKMPPGY CGLGTVGVSFVGIKK
5978	3	242	SPFFKDSRRGCGCGSSLNITAVAM/VLGSKEAQRLQLFKSGQ FAIRWGFPIPIVLYLGFKRGADFGMPSPVVLISLLAG
5979	3917	1146	DEARVSGEVAANAISRCRHWGSPFPFSSFPDRKGLRG*EPWE ADQSGCATPGRAMDVRLRLSRLSRLQRLDLTKLTKLAE RIQALAEAEFPDRELELADSPRGHINEIVETSGSLBGT AQPPPPGLQPHAEPPGSGSPGDHYAMDNITRQMPFYDTQVTQK NESGYERRPLFMEQQQAYRPMKTEMKQCAPTSFLPPEASQLPK DRQQPQSRKRPEYENRGRYFEHREDRGRSGQPAEDEDDEDFD DTLVAIDTINCDLHFVARDSSSGYPLTIBOFAVLMSSGAPASV VRGRVCFEMKINEISVKHLESTEDPHVRLIGNSLSCSTQL GREPFSYGGYGTGKSTNSRFNYGDKFAENDVIGCFADFECGN DVELSEFKNGKMMJIAFRIQKALGGQALYPHVL/KNCVAEFTN GQRAEPGVCVLPPTFIQHLPLSERIGRTVGFKSABCEILMNV GLPAAGKTTWAIKHAASNPSKYNILGTALIMDERMVGMLRRQR NYAGRWDLVLIQATQCLNRLIQAARKKNYVLDQTNVYGSAGR RMDKPRSGQRKATVICTDDELDKDTIKKIDESGKDVDFHAIL EMKANLTPQVQDPLAEVLETELQREADRLVRYNBSGRKAGF PPKRFDMRQGGQFRKAGQGGQAFYETPPGSCNCGCNNGG GSCCGNYRGPNRSGGGYQGNWNNDRNDNNGNRSYHRA PQQQPPPPQPPPPQPPPPQPPPSYSPANPGASTYNKMSNI PGSSANTSTPTVSSSYSPQSGFPPSTPQPSYSCPPYNGGYSQ GYTAPPPPPPPAYNYGSGYGNAPATYPPPPPTAQTYEPQSY NQCYQAQWQNYQNOQQWPPYGYNYDYSGYSGMTGCTSTQ
5980	1	420	GTRKRTGRVAAPSTHRTTGNQKLTQTSFANGLSDPLGLHYPT

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6981	10	1054	CWTLRWPPCLCSLHALHVFHCLTSSRLQTPVSRRLAMDPNCSCEA GGSCACAGSCCKCKCKCTSCCKSCSCCCPLGCAKCAQGCICKGA SEKSCCA PGRGPRRASLRPAFAARGVFGGGLQAQKARTRACALPTPHPS APRLLEPGQVPSLFPFPPGPPWPHMILTKAQYDSIAQCLVSVPTT RQSLRLKQKQFPSSQATLLSIFSOEYQEHKRTTHAKHTSEAI ESVYQRYLWGVKNGRAPVLLDANEVDYAPSLHARLLERFLQ EHERTPPSKSIINSMLRDPDSQIPDGVLANQVCTINDDCYPL VDCIKHAIGHEHVELLDLILKLNFLDEDQLAKGYTKTDF ILQVPVAVEGHIHWIESKASPGDECSHAYLHDQPMGVNRRFG PGLVIVYVFIQELDNREGRILLKCFPTNVTTCHSIA
6982	153	1285	FFQDCSAPAAPGLAGSEPRRLRAYRRRRQRGLRKRVAMLAPP PSLLQGLQHAQAPVDGTLGPEDSRASSPMI QNSRPSLLOPDV GDTVETIMLHPVIKAF LCGSISGTLLFPLD LKTR: QTLQ PSDHGSRVGLAVLLKVVRTESLLGKNGMSPSIVRCVSGVI YFTLYSLKQYFLRGHPPTALESVNLGVGSRVAGVCMSPITVI KTRYSGKQYGESIYAALRSIVHSEGRSLFGLTATLLRDAPP SGIYLMFYNQTKNIVPHQVDATILITPNSGIGIFAGILASLVT QPADTKTHMQYFLPKFQWIGQVATLIFKDYGLAGFGQGI PRA LEPTAAAMWVVEEMAKSLKS EHSFLQCSFTFKWHSIQNALAARALLANTIVFLSKPK AALEYLEDIDLKTEKEBPRTFAKELNEKJUMVNRBCPL CEREAAIDLSSKMLDQLGVLYAVKHLRTVEKDFPYFKE IFLDEKKKFGVQRRKMMFMGFILRGVYNTFRANNGPSGNLE GEGFILGGVFVVGSGQKQILLEHEKEGPKVNLVLVLEAARMI KQPTLASBKK GGRSAYSLPAGSLPRVPATAAANMAGQVQVDEVCRIFYMNR KCS TPEEIKERKKAIFCLSDAKKCIIVEEGKEILVGVGVIT DPFKHFVGLPEKDCRYALYDASFETKSRKEELMFFLNAPELA PLKSKMIYASSKDAIKKKFQGIKHECQANGPEDLNRACTIAELG GSLIVAFEGCPV RRTAGITPCFPKPGORTALCSVLLLLITQLAFDDPCESAMN NKFVAGSRSMPLGARILPHGVYAGGPAIVVYLQKPHSRALY YKLAELOSLIEPQALGPPINHYLKLIDRENFDIVDAKLL IPVSGSKSEGLITVHSSRGQFPQWMLDEVFLKDKGQIIVFK LSGENDDEVKKE YHLYFKMGDPNSRKKQALNHLAQLKIKKKSILAQDFPKMYAF VFKEKKKKSALFEVSEVIPVMNNVEMILKGVDSYGLSESL ELLQKDVOLHAPRYQSGRRDVGICTQBMDFILMPNDIEKVC LLFSRWKESDEPRFVQAKFEPIHGDYEQKFLVLSRKDKTGTIV VMNPNQSVFLIDRHLQTPKMKATIFKLCSILYLPOECLTHN AVGTIEDHLKPYMFE LRAAKASRAPKESQKQDTSKNYETNWSFKSQSRRYDNYNTAC FLGEIKVGLYTIQLQLTPFFHKNELSKKGNVQLSGKWTIP DPRNECYLALS KFTSHLKNLQSDLKCFDFIDYVNLVLMRYTQ KTAIAIMI:SKKVSRCPRKYTELFCPLDPCLLQSKESQLIQEN RKLRLALRADRFAGLLEYLVNPMYKDATMBSIVNHEYAFLLQNS KKMPTNTEQNSLIANILSLCLPNSKLIQLPTLLKQLREVLQF VGLSHQYPCPYFLACLFPFENQELQDSKLIEKYVSSLNARSFR QYKRCRCKSQASTFLYLGKRLGLNSIVYAKIEQYFDKACQNTN SLNHHGDVWKNRVKDLRLITQARHGILSVETGETEKIKIPV ISVYSGPLRSGRNIERSVYLFQSFIEGPPGL TOLLRRPAVFGSAASTIRSGINSSAGHNCAPAGRAHAPVR LVRLGAASTAAPQDAQTGQPPMRADCMHRLPYFCROGVVRG PGRGSKQLGITPTANFEGQVDNLADISTGIYVGNASVSGSDVH KMWVSIGWNPYYNFKKSMETHIMTFKEDFYGRILNVAIVGYL
6983	82	773	
6984	1845	1282	
6985	1887	1324	
6986	642	1350	
6987	1623	341	
6988	3	689	

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6989	2	1118	RPERNFDLSLESLIAIQGDIERAKKRLELPEHOKIKEDNFQVGS KSKIMNGH LMPFSDRPLSPFTHASAGSCHAPPTTAREAPPFPFOSKSNMATT KDLGIYNLLKEEQTPQNKI TVVGVGAVGNACAIISIMKLDLDEL ALVDVIEDKAGEMMDLQHGSLPRTTKI VSGKDYFTVANSKLIV IITAGARQGBESRLANDVGRWVITFKIIFNWVKYSFCKCLIV SNPVDLLITVAMKISGPPGRNVIGSGCNLOSARTVIMGSLGV HPLSCHGWVLGEGSDSVPVWAGVAGVSLKTLPDLGTDKDX BQKEVHKQVVESAYEVTKLGYTSMAIGLSVADLAESIMKAR RVHPVSTMIGLYGKDDVFLSVPCTILGQNGISDLVXVTLTSEE EARLKSADTLWGQIKELQF
6990	719	258	THASGASVVLALRTTAVTSLSPFTATLAVRYLASKSGGSS KNLOGKSSGRGQIKKMGSHYVHAGNI IATQRHFRWHPGARHVG GKNCLYALBEGIVRVTKEVYVPHPRNTEAVDLITRLPKGAVLY KTFVHVVPKPGSTFKLVAML
6991	169	451	RRSDVFNHFGFLSRPVSLENHISQVICSITKRRNPKKIVALL SSLMTNINPNSTENQFVDAWAFLLQDFLITVACVEGTCGLF CGRHVH
6992	944	510	RQAPGSSIALKQVRQVYCSLHAPVQVTRPLSSRFVERRGATY RSPKNGENPFPFGPGPTAFYPPFPQMGSPGMOGPPFPFGGY PYQSYQYQWQGGQSPKPTTIVYVEDQRDELGPSTCLTACWT ALCCCLMDMLT
6993	1	374	QWCVTCPQHNARQSPAVPFGIQAQGAAPPEDLQVDTENSCKRG DRWNIKNMNVASLCPLWKGQPTVWLSPTAVIVGIPAWIHEHS VKPAARETWEARSPDNPFRTVLKKTTPSPAPVTPGS
6994	346	1100	QWPEKPVMAASISSPWGKHVFATILVWALITLESALAQSR RDFAPPQQKRBAPVDVLQIGRVRGLDVAIGPETHLVSES SSQVINAISSAISVAFFALSGIAQLNALGAGDYLQAQGLKS PGCVOTFLWAGALVVTWLLSLLGLVALLGRILWGLKIVIF LAGFVALMRSPDPSTRALLLLALLLYALLSRLTGSRASGAQL EAKVRGLERQVELRWQRRAKGAASVEE
6995	144	1346	GSVAVGLSGIWAQKDLNDATVIGAGIQGCTAYHLMHRRRL LDEQFFPLHGRGSSHGSRIRKAYLEDFTYTHMHHCYQIWAQL EBEAGTOLHRTOLLILLGKESQBLKTIQANLSRQVRVEGCLSS EELQKQFNNIRPSGVEGLDSSGVYATATALLAQDAIRLGL GIVRDEKVEINPGLLYVTWTSRSYQASLSVITAGWVWGL RPLQIRMPQLTIRNVYCNHMPVSGYVSQAFCTFLWGLCPH KIYGLPTGEYPLAMKVSYHGHADPSEEDCTARTDIDGVQIL SSFVRDHLPLDKPEPAVIESCKTNTPTQEQILDRHPKYDNIVI GAGPSGHGFKLAPVVGKILYEISNKLTPSYDLAPFRISRPSLG KAHL
6996	543	1942	ETANAAARASAMDKVLRRLATFTMFCNKKSEBQKDEE MDLFTKYYSWKGGRNTEFYEYTIIPFYRLPAENVELLQKLR EBSRAVFLQKSRRELLNEELNQLWFLLDHQTPMIGERAMIN YENFLKVGKAGAKCKQFTAKVFAKLLHTDSYGRISIMQFFNY VMRKVWLHQTIGLSLYDVAGQYVRESLENYILELITPLEQL DGLKESFYFYVCTAVRFFPFLDPLRTGKIKIQILACFLDD LELRDELSKESQETNWFSPASALVEYVQYLWLDKDHGMLSK BELSRVSTATWVFLDRVFBQCLITDGSMDIKTYLDFVIALEN RKEPAAALYIFKLLDLEKMYLAFVFAIYFPAICRKLKHGQD PYSQDVDRIDFMVKPDKPLKISLQDLINSNGQDVTITLIDL NSFWTYENREALVANDSKNSADLDT
6997	370	1104	AMETLITFILRAIYILTPLYLLNFLGLNSWICKKFFFLVRF TVIYNQOMASKKRELFSLNQEFGAPSGKSLLEVQCTGTANFKP YPPGCRVICIDPNEFBKFLKISIAENHHLQERFVVAAGENH

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6998	2	616	QVADGSDVVVCTLIVLCSVKNQERILREVCVRLRFGAGFYFMERVAARECSWYFNQVQLDPAWHLLFDGNCILTRSESVALERASFSLKLQHQIAPLSEWLVKRPPIHYGVAVK FVSKALLVESRRHPAEBRAAPGPFEDAPICPGAINCPEPLMCSELVPIVAPPFMSERKGSASSPKEDTKVPQVTTAKVPPAADGKAPLTKPSKKEAPAEKQPPAPATTPAPAKKTSATAADPALLMNHSENLPKAPTVPSSPDATPEPKPGQDGAEDDEPAASSGPGGPGWSCEVFNPLLVAQGVAAVAIALILGVAFVLEKK
6999	14	1591	GRAGACSRDRTAMSTIETESSVITRLNQYLKENSILHPLALATLQETTVLSIATVDSIRSFVADINSQHWQDVLQIQSLKLPDCKLIDLQEYQVVLIELRELGAARSLRLQDTPMILKQOTQPVYIHLNENLARSYFDPREAYPDGSSKEKRRALIAQALAGEVSVPFSLMALGQALWQHQHQLLPPGNTIDLFGKAAVGVESKEKFTQLSREIKFQKSHVECARFSPDQQLVLTGSVDGFIENWNTTKIKRIDLKYQAQDNFMMMDAVLQMFCKSLDTMELATQAQDQKIKVKIQISGQCCLRFPERAKSGKVTCLSFKDSQILSLASPDQITRIHGLKSGKTLKSFQHSSEFVNENATFTQDGHYIISASDGTVKIWNKMTCESTNFFSLGSLTAGTDITVNSVILLKPNPEHFNCKNKNNTVIMMQGQIVFVSFSSKREKQFVCCLSRQENIKVCEGDFLVYCFSTVTOKLERLTIVHEKQVIGLADHPPENIATYSEDLKLKLE
7000	2	827	QGVVFLMLMESQPPESSEKSEFPSQAEENRETEAEPEETOPKNPLQALPALTGDVTLQKIPEDPNNPHIEQWQLLLEEDIVGRNLLYAACMAGQSDVIRALAKYGVNLNEKTRTGYTLLECAAWGRLETLKALVELDVIDEALNFRERARDAVARYSQTCVRFELDWADARILTKKYLAKVSLAVITDEKGGSGLLKEDKNTILSACRAENENLETHTEASINELFEPQROLEDIVTFITXMITCQVKSASKVTHSDQKRSQDDTEN
7001	2056	844	RECLILAFKKGCFIIFYPIFIFETEFSLCCPGHSAVAQSRILIANFASQVQAIFLLPKDSQVGPVKGSEAPKRALYRSVFGSGEIOCPSTPKRLCIRPSEPVDVVVSVKHDPLPLPEANGHRSTNSPTIIVSFAIVPTQDSRPMNRPLITREPASPLANQGIPTPAQLTKSNAPVHIDVGGHMYTSSIALTLTKPSSRIGRLFDQTEFIVLDSLQKHFDIDQCMFYILNLFATLSKLLIFDDFKYTLTLLEAKYFQLQEMLEEMERQWDETRGFPCZCLVYVPAPOERITLSQDKSLIKEVFPFEGDVMKNSVNAQGNDETHVIRPLNGYCILNSGVVLRELRQQRFEIVSGSGGVDSQCFSEYVLRERBLRTPRVPVSIIRIQEPELD
7002	1043	498	PNFSGSTRWITS*TYTDTSSAMACRPTIGTCT*TAAPGPIVRWNPTPCSRHQSSRRRLTCWCSTSRPCQGR*GGLCVRTAPTRPTSSASSSWTSAGCTSWEAGRRTGTATSGTATTSSVNGCGTRMNSTQMSVPRSRSCSRFPATTPSPKGPAPAPACASSRHLAUGLAPSSPGLPARGAEVC
7003	818	61	QQRFRAPFCWRDFFLQPGMRLSALLALASKVLTPHPRYCHMSPFQSVADKERENPWIRRRPVVVEPISDEWDYLCQDCTVRLLEGKDAQKQKRVQVQVIRQRNWWVGLNTHYRYIGKTMVYGTMTPESEAPLHHRQVQLVDPMDRKPTIEIWRKTEAGERVAVSTESGRIIPKPSFPFRADGIVPFTWIDGKIDTSVEDALEKTYVPCKLTLQBEVMEAMGILKETAWTRSGIIGIERASQLLPNFCSELEG
7004	121	2285	FLLPLVLSRSRLQAPAPRALGTEWAEAMKSAKTPKRPFTVYKKGAPKRTLKTOLG/YCYCRVPLQ/PDCCACCIENINTTVOLHTPEGYRLNUNGDKYKTOYSHKCVPGTHITQKELFDVVANPLANDLIHGKNGLLFTYGVTSQKTHMTMGSPGEGGLLPRCLDMFNSIGSFQAKRYVFKNSNDNRNSMDIQCEVDALLERQKREAMPNPKYSSSKRQVDPEFADMITVQEFCKAEVDEDSVGVGVSYIEIYNNYIYDILLSEVPFDPINPNLHNLNCFVKIKHNNMYVAGCTEVEVKTEAEFVFWRGQKKRRIANTHLNRESSRSHSVFNIXLVQAPLADGDNDVL

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[illegible]

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7012	1	2661	<p>RRVESLEKNMALLDPPDADHLYSKVMVMSPPSMEDLTHKSCAL AEDPQSLRDGPHQPARLVKFLVGMKKDEAMAIIGHWNSPGLDGP DPEKDPVSLIKTVAIRCCIALTG</p> <p>RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKAAAA AAAAAAATGTEAGPOTAGGSENGSEVAQAAGLSPGAEVGPGA VGERTPRKEPPRASPPGGLASPPGAGPAGPTVVGSAATPME TGLAETPEGVARTSRKRKRVETREMDSEJNLSEDEYTSSEER NAKAKEKKLPPPPQAPPEEENESPEEPSGVSGNAFQSLPH DRMTSQEAACFPDIISGPQQTQKVFLIRNRTLQMLNPKIKQL TFEATLQQLSEAPNSDTVLVHRVSYLERHGLINFGIYKRIKPL PTTKTKGVIIIGSGVSLAARQLQSGFQNDVTLLEARDVGGORV ATFRKGNVYADLGAMVVTGLGPNMAVVSQVNMELAKIKQKCP LYEANGQAVPKEKDBMVEQEFNRLLLEATS YLSHQDLFVNLNNKP VSLGQALEVVIQLQEKHVXDQEIHHNKKIVKTQSELKELLNKMV NLKEKIKELHQYQKEASEVKKPPDITASFLVKSXHRDLTALCKE YDELAETQGLKEKLEQLEANPPSDVLYSRRDQILDNHNFANLE FANATPLSTLSLKHNDQDDDFBTGSHLTVRNGYSCVVALAEG LDI KLNTAVRQVRYTASGCEVIAVNTRESTSQPTFYKDAVLCGL PLGVLLKQPPAVQVFPFLPNCISAVQRMGNLKNKVVLCFDRV FMDPSVNLGFHVGSTTASRGEFLFNLNLYKAPILLAVAGEAG IMENISDDVIGRCLAILKGI FGSSAVPQPKETTVSRMRADPWA RGSYSYVAAGSSGNDYDMAQPIPTGPSIPGAPQPIPLRFPAGE HTIRNPATVHGALLSGLREAGRIADQPLGAWYTLPRQATPGVP AQGSPSM</p>
7013	1	2661	<p>RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKAAAA AAAAAAATGTEAGPOTAGGSENGSEVAQAAGLSPGAEVGPGA VGERTPRKEPPRASPPGGLASPPGAGPAGPTVVGSAATPME TGLAETPEGVARTSRKRKRVETREMDSEJNLSEDEYTSSEER NAKAKEKKLPPPPQAPPEEENESPEEPSGVSGNAFQSLPH DRMTSQEAACFPDIISGPQQTQKVFLIRNRTLQMLNPKIKQL TFEATLQQLSEAPNSDTVLVHRVSYLERHGLINFGIYKRIKPL PTTKTKGVIIIGSGVSLAARQLQSGFQNDVTLLEARDVGGORV ATFRKGNVYADLGAMVVTGLGPNMAVVSQVNMELAKIKQKCP LYEANGQAVPKEKDBMVEQEFNRLLLEATS YLSHQDLFVNLNNKP VSLGQALEVVIQLQEKHVXDQEIHHNKKIVKTQSELKELLNKMV NLKEKIKELHQYQKEASEVKKPPDITASFLVKSXHRDLTALCKE YDELAETQGLKEKLEQLEANPPSDVLYSRRDQILDNHNFANLE FANATPLSTLSLKHNDQDDDFBTGSHLTVRNGYSCVVALAEG LDI KLNTAVRQVRYTASGCEVIAVNTRESTSQPTFYKDAVLCGL PLGVLLKQPPAVQVFPFLPNCISAVQRMGNLKNKVVLCFDRV FMDPSVNLGFHVGSTTASRGEFLFNLNLYKAPILLAVAGEAG IMENISDDVIGRCLAILKGI FGSSAVPQPKETTVSRMRADPWA RGSYSYVAAGSSGNDYDMAQPIPTGPSIPGAPQPIPLRFPAGE HTIRNPATVHGALLSGLREAGRIADQPLGAWYTLPRQATPGVP AQGSPSM</p>
7014	3	3950	<p>DEVEGSEKIRIATLEDGNLEGLMKGTGTPPIPRFVKLCPTHE ETWALQSGSLARIPETSLCLANTPQDQREHESCHAEEDP CIISEAPTSPLGHLTSEYDTRNSYQDEDTACPPRSQEWEM PLATDSPTSDPTEVVMGSSQPPVPHNKLQKQYTYGVGSHP HSEQYVPLLPLRARTDYASLPKRMYSQKITQKQVLPYRGS SVSASRVVKPQSSQGLHNLAS YTKHHNTSVYSISERLEMCPQ PQAGLVMENATHSQHGSDTDLSDKITQQLIEFKSLAGEPTPE DKILRHFSIMDNSEKIDTVKSGSLITQELPERRKALRPPPPR PCTPVSTSPHLLVDONLKPAPPLVVRPSRZAPLPPSAQQRNAV SPKLLSRHRPTCTELKKEGPGHMRSLDQSPCLPLVLRIRME RDLIMYSRAQREINLMLEKQDESSRAETLEDLKFCESNIESLN</p>

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			<p>MELOQLREMTLLSSQSSSLVAPSGSVSAENPEQRMLEKRAKVE ELLQTERDYIRDLMECIERNIMVPPQQAQVNFIDFGLFGNMQMV IKSKQLLALEISDAVGPVFLGHRDELEGTYKIYQNHDEAIA LLEITYSKDEKIQNHQDSLADLKSLYNMGCTNYINLGSFLTKP QVRVMYPLLLMLLWSTPSEHPKVPKLTNAVLAKEINVININE YKRRZDLVKYKGDSDLSMEKISKLATHSIKKSRVYSLLKH LIGFAPQLKDEVFTEETKFNPRQERLKSPIRLSLYLQHTES ACVKVVAVMNDVCMERGHRLDQFERVHRYISDQLTNFKER TERLVISPIQLLGMFTGPHKLVKRPFKLLDFNCTERAELIK DKKTLLELOQSRNNYALNAQLDELKPFHQVQGLFTXCVHGY AEAHCDVFHQALEQLKPLLSLLKVAGREGNLAIFHEEHSRVLO QIQVTFPPESLPAKKPFERKTIDQSAKPLGLPSYMLQSP ELRASLLARYPEKLPQAEKNFNVAQDLVLSLEGGIVGVKIKK DPMGQNRWLDNGVTGKFVYSSFLKPNRPNRSHSDASVGHSS TESEHSSSPFRPNQNSGTLTFNPN\VAVSFTSGSQKQKQ DASPPKENDQOTLSASLNPSNSESPPSRCPSDPOSTSQPSGD SADVARDVQKPTATPSSYRNFHPETVYSVPGNGNQSDLVKG CARTAQAPEDRSTSPGSEBQNGVYFAVTFKARNPGLSVSA NOKKLEFQVDTQNTFWNLVAHNGKQVDEFTIKVET </p>
7015	1842	513	<p>RQAMIE\VAAPSHWGRARLVQSLVAVQVGFVAERNTVPSLL GFQRBCVSCVAGSAGFGRPLASASESGNQQSALDHPGLFSQPD SVTPCVPAMVMDRQDVLVHHPDMPNSRVLRVLLGAPNAP KSTLSHOLLGRKVPFVSFKVITTRCQALGVITKETOVTLLDTP GITISPGKRRHLELSLEDPEKSMESADLVVLVDVSDKWTNRN QLSPQLLRCLTKYSQIPSVLWIKVCDKQKSLVLELTAALTEG VVGKCLKGRQAFHISPGTHCPSFAVDKPNTPQSVGNPRLGNPH FKELPMLSALSQEDVKTLKQYLLTQAQPGFWHSAVLTSTQTP ETCANILREKLEHLPQEVPTVQQTAVWEGPQGEVITQKQL LVPKESVYKLLIGPKHVTISQTAQERGHMDIFLCLVDLIRLSV KLEK </p>
7016	167	2513	<p>TLNAPFPFPPDRSVSAVAARXDTGGGSGNGMDVSGQETDNRST AFROKLVSDIEDARKKQAVMSKESIDHSHVFLAAKTRDEYLS LVARLITHPRDTHNKKSCASVADPMNALQSLTGQQAAGTQK PPRGPQOALQMGSLQMGQPMLSLQGPPTSGMAPSMAVVS TATPTQTLQLOQVAAAAAATARSSSSSRRERYSSSSSSSNGKQ FQAQASAMQ\QFOA\VVQOQOOL\QOQOQOQOQILKLKHONQO QTQOQOQOQLQRIQALQLOQOQOQOQOQOQOQALQAPPTQQT PMQGPQPPPSQALPQQLQMGHTQHQPFPQGPQPPVAQNQPSQ LPQSQQTQPLVSAQALPQGMLYTQPLFKFVRAPHVWQCPVQV QVQOQOTAVOTAGAAQWAPGVQVSQSSLPMLESPPSGQCVQTP QSMPPPPQPSQPGQSSQPSNVSNGPASPSPSFLPSPSPQPP VQSPVTARTQNPQSVPSGPLNTVPNPSVMSPAGSSQABEQOY LDKRLQLSKYIEPLRRMINKIDKNDREKDLSSKMSLDELITDP SRKPLKTLQKCEALEKLNMDMAVTPPPPPVPTKQYQLOCP LDLAVLANRSPVPHSLKRTFVPMALHGFITAPVVCRRR RLEDEKRSISFVLCQVBARLDKFLVDEPSEKSNNGTWHLIC KLDDKDLVSPPELSEVADYPAQSEFLWIDRQWYDANFPQSV HRCMTSRLQLDEKHSVITALNTWQCSVQACLSZA </p>
7017	1	1785	<p>INLNTCYMNSVI*ALPMATDFRRQVLSLNLNCSLMKRLQHL FAFLAHTOREAYAPRIFFASRPPEWETPSQDCSEYLRFLDLR LHSEKILKVQASHKPSRILECSETSIQVASKAARVLTETPRTS DQKTLTIEMPGKRLRTHIRCLNCRSTSQJAEAPTDLSLAFWPS VSELYMSCDCSQSPSIQDQGLMQASVFGPSESFVYVNTTAAFP ICDSLWNEKTIQSPNPFYCSENTSVPNESNKLUNKDVPQKPG GRTPSVTDLLNYFLAPEILTGNQYTCENCASLCAKTKTQCT EEPEYLTLTLRFSYDQKYHVRKILDNVSLPLVLELPEKRTS </p>

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7018	484	1066	FSLSSESWSVDVDFDLSLENLAKKLKPSGTDEASCWKVPYLLS SVVVHSGISSESGHYYSARNITSTDSYQWYHQSSEALASSQ SHLLGRDSSPAVPEQDLENKENSKEWFLNDSRVITFTSPQSVQK ITSFFPKDTAYVLYKKQKSTNGLSGNNPTSGLMINGDPPLOKE LMDAITKONKLLQEQELNARALQAASASCSFRPNQFDEIDNP PSCCPTGGGGGGGPTVVELVH
7019	1048	335	SLVFRGVTSGSEKSHKCALMLAANHLQVGTERRIAPITIQ PSLIGEGAGIAETLQYILDRYPKDVQEMLVQVPLTGGNTMYF GKMARMKKELEMRPFSSPQVQLASNPLVDNAYGCRDWAHLH DDENVITRKEYEEKGGELYLKEHCASNIYVETRLPKQASRSSDA QASSGSAAGGGAGBQA
7020	1	2154	AFGGFLVTWVPAPSPPMMLKCSHVTASPTTCKDKMSALVAA RMRHILPAPGSDWRDLPHNIEVRLSDGTMARKLYTHDRKNGRS SSGALRGVCSVEAGKACDPAARQNTLIPWCLPTHGRIHWA GLYGRLEWDGFSTVTINPEPMGQGRVLPQEHVSVSRECAR SQGFPDTRYLFGNILDKHROGVNAPVPLAKAIGLEIKLCMLAK ARESAKIKEREAAKD
7021	2	338	FADSKRSVILLOKIKNLQVALTSKQSELETMSFVARNTFFRVR NGPLMRKVAVFNSNTFTRAPQLREAVLKLSDAGITPLFLTRQE DROKINALQINNTAVGHALVLPAGRLDTPFENVLTCMVCLDIC NIDPSGGSWPSFEDRRAGSDVIDMALFLLDSASTTLPQF NEMKVIATYLVRLDMSDPEASQHFARVAVQCHSESVYDAS MPVVKVEFSILTYGSKELVDFLSRGMTQLQCTALGSAIEYTI ENVFESAPNPRDLKIVVLMTGVPBQOLEARQVILQAKCKGY FVVVLGIGRKVNIKEVYTFASEPNDVFKLVXSTELNEKPLMR FORLLPSFVSSENAPFLSPDIRKQCNQGDQPTTSLVKHGHQ UNVFNNTSSPTSNPVTTTKPVTTTKEVTTTKEVTTTKEVTTT INQPSVKPAAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK PAAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK PVMDSREVQVFETIENSALHVERPEPPGGPYFDLTVTSADCS LVLKQNLITVDTRVIGGLAQGTTHYVAVCVLSQVATYHGSFS TKSQBPFPQPARSASSNTINLMVSTPELALITETDICKLPDKEG TCRDFLLAWYDPTTKSCARFVYGGCGGNNFGSQGCKEVCVA PVLAKSPVIGWOT
7022	2	856	VNAVSPFFKRYAFATGSDDATCRFLPQARQKELLVSHENITCG ITSVAFSKSGRILLAGYDDPNCNVWDTLKGDRAGVLASHDNRS CLGVTDDGMVATGSDNSFTLRWV
7023	2	748	VYTGSPHSHLLIPDNKKFPAEQQQLPDIQSLPRNALRKIN DLIKRLAKVHAYIISLLKKEMPSVPQKNKKELVNINLASY GRIEREHQISPGDFNLKMQQDLQAQDFSKPQLKSLLEVD DMLAHDIAQLMVLVQREESQRP IQMVGKAGFEGHLEFGHGYG EGAGEGIDDAENNVARDKPMYDIEFYTLSVDGKITGNAKEM VRSKLPNSVLGKIKLADIDKGLDDDEPALANHLIKVKLEGH ELPNELPAHLPPSKRKVAR
7024	1207	190	AMVGGVVPVYVQVDRTRTQADGFSYVCLVLLVANILRLFL WGRFRFSSPLLWQSAIMILTMLMLKLTCEVRVANELNARRSF TAADSKDBEVKVAFRRSFLDFDPHFFWQMSFSDYVQCVLAFTG VAGITVYLSDSALFVETLGLAVLTEMIGVPLVRRNHGCT EGMSTKWLNVTSQDAFTKAYVLLKQALPQSVCGLLGLVLDLA ILQAYAVARHPQKPAHVAHPTCTKAL

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			TGSKQAQASHSYRVYVYAGPKDEDDYIVDHSIAIYLLNPDG LFTDYVGRSRSAEQISDSVRRHMAAFRSVLG
7025	232	832	ERNSPTGNWEL*K\HSLDCLCFRGDWGNTOPCTLDQNEBECF KQVIRICEKRPITFMHTVFNLAQRINTGDKLNSFKELGKAFISG SDHTQHLHHSSEKFCQDRSCGHTPLDSEVIQYQTVHTVKTY ECKECKSFSLSSSLTGKHKRIHTGKPKCKDCKGKAFRTSHSLS VHKRLHTGKESYECCKGCKGKAFSCG
7026	328	1146	NPNFSIGDIDIKDKKAKSMIDPAKNSHPHPVPSLVPLCTITFG LHQALLSVGVSKRSNTVNVNNEERGTIYASRFKDMPIFALEK SSVLRHCCDLLIGVAGSSDKICTSSLOVRRFKAMMASIGRLS HGSAADLLISCAESAIIGNISSRRVWGLMFTFLFGDFESPLHX LRKSS*LPKRHR*OPINAVRMPLDQCMGSIARIVSEIPIVFE BKJNG*KGIGSIF*VWGCTLPPHYNGAVTTNPKLSNSGKILG QDEPHIFG
7027	43	954	GRLLQCCRPEDAEAGGCGKRENGEGGVPETVKNKLFPH YIOELKIVPEGEMQCFMDALREPLPATLRITGYKSHAKELHLCL KNHFKLELEDMGOKVEVPPQLPSMYPERLAHNTLSRKILRK SNHLEKFPQFLVSETESGNISQEAASVIMPLLINVRPHKILD WCAAPGSKTQILMLHADNVPVPSGFIANDVKNRCKVLLVH QAKRLSPCLWVWHDASSIPPLQIDVGRKELIFDRLDCDVP CSGDTNKKILDWKWKTTNLGLQHLGLERAPGACIL
7028	189	608	SRPPPEPFGTVMKESDSSSEKGGVPGTPTSTQSLGSNIIINS KIMQSWYMLSPYTKQNEDEPKLFSKLPPEARLIVDYSALQR BILLOGLRILYSENWICFYSNIFRWETTISIQLKEVTCLEKETA KLIPNAIQ
7029	1343	40	VLESNTFAKQAGTSSKLRHGTGQEKQREDEPRCPGSLAQRLMG /PCPHAGRETGPASAPIPGS*GHGWH*RKDGGRSEGPSAL SPHSPSLLNQAPTHVPGMGSGQRPSVVPVQGVGSGOLSRE RWRA*RLPGAAASERTENTKERSP/RPOOGVSSWFTOPGKK TRKNSRRNTMVSROGGCLLYPQSGIME*QLR*GAHASPTQGS R*GGGSPSLTKASGTHITPFPFGSP/RPTDSDSGSDTNS RAPOQRKGRRA*GQHPV/MGRVTHLQAGAQ*TKPLGS/RNK VPGIABQCBQBMGLBEP*PLAGCRSTLFTSPQLSITMVCKKP PEGTATSPF*NSCHS*FKPPPGCTHAPLSLPHLPLPLPLPL PLPLPGAGT*HSASRGRPGOSTGSLCINCHICPHCPKCSFGG T
7030	2	521	FUCFASFGSGGQGRVNNELSAVERVFNELLLKRLKGRM EYLWVKWGSQKYSTW*EENILDLARLLAAFERREEMELYGPX KKGKPKPTLLQAQAKAYKTYFRSDSARGIRIPYPRGRSQDL ASTSAREGRLN/RVCPQRQAAPAPAP/PRRGSGSGPRDG*G PGLHFPQGGPSKHGFPVPSRQHQHQHLEPRKPGSGGPRPDG
7031	960	59	HCSVPGAENPRPQAQICPQLTSRPHLSSTFSLSPGSGHISPGPG /CKPS/RHCDLHHRGPKTAALPOGKPOPKGVVERCG/PCPCIA PRILTEPPALT/SPVQRAAPSGAL*PSGRACSCSHRLAEAL SAAAPRPSLSGQNSAGI*PAASLEPPQDSSQPHKTVSPARSVFP LGAQAKAAPRLMCPALVSG*EASPEAVSVIAGPVVPGPTPTST SGSTASHSRGCG*SPK*TIAPPKRDHGRGAFAEVLTAASQAQC ASQCGPPKTAGTGTSPQLCPFSRGGPAAASARFPCKHUSL
7032	1393	2104	KRKPRTPEVPPVPPFPFPAASNSKSRCPENLHLAFI*QSPLRK SROGTSSLPNGRSAGIERKAPAYVCLSKGSSVPL*SSSL ELWKKQFGKGLHSLPWKSNQOMNSFLTPKLDTSLSMAGNRYGR LPRILHTFLKKSLQMASELAPLPTPAPLASSLPDPDPGPPLLPV PLA*LSRSGTILVPPNSGFLSLC/PLGDH*GSSGEVRGSGSGPPP HHCMVLPDPPP*LLPPR
7033	689	815	RSRDLSSSATSNHRRSKSCSPKRA*PLDSCGPG*APDGPSSA

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			<p> DMPTSCPWRTGALGPSNAGSRALGRCTESVSGPSRWLTRTSSP LGCPTTRWTRMRPRPLRSRMGSGAPGIPAEIPLSAPSPGSPSPS AAAPASAPTTAAAGPNTL\SRRTAEKCHVPPSCSCGKGW*S/SA WDRWRPPIQVSPAPSSSCRASCCWCELSIT\SSSTARSRTAGAS SSSTCPTSSDSRGAAWT/SPHMGALPLCSFVLSIRBEALQDPR NSP*GVCSGSGAGGAGTGGCPVPAICV ETSSMPFRLLTILLCALLCPHRAAGGSPSAPDPAHYRER KAMTHYHAYDSYLWNAFFPDELRPLTCDGHTWGSFSLTLDALD TLT/LTLFYQILGVNSSEQRVVEVLAQWPCSGPCLLRMAEBAARKL/LP RVUGLLLSAHLKSKKAGVVEVLAQWPCSGPCLLRMAEBAARKL/LP FQTTPTPMGYGT/VNLHGVPNGET/PVTCAGIGCTPVEFATLSLL TGDPVFEDVAR/VALMR/LWBSRSIDGLVGNHIDVLTKGKVAQDAG IGAGVDSYFEYLKVGAILLQDKKLMAFLEYNKAIKRYNTRPDDW YLVNQMYKGTVSMVPVPSLEAYWPGLOSLGIDINMARTFINNY TWVQKGGPLPEFYNIPGYTVTEKREGYPLRFLIESAMLYRAT GDPTLLEIGRDAVSEIKISKVCGCFATIKDLRDKLDMNRMSF FLAETVYKLLVDPPTNFINNGSTPDAVITPYGBCILGAGGYI FHTFAHPIDPAALHCQCRLEKEQWVEVDMRFPSYLSKRSRFPQ XTVSSGSPWEPPARKPTGLFSPEHHDOAEKRPKQKVP/LPSSCP QPTFSK/LALGLQVFLDS*PLDNFFIFPFLRNLNYKLLATIKK K </p>
7034	92	1942	<p> ETSSMPFRLLTILLCALLCPHRAAGGSPSAPDPAHYRER KAMTHYHAYDSYLWNAFFPDELRPLTCDGHTWGSFSLTLDALD TLT/LTLFYQILGVNSSEQRVVEVLAQWPCSGPCLLRMAEBAARKL/LP RVUGLLLSAHLKSKKAGVVEVLAQWPCSGPCLLRMAEBAARKL/LP FQTTPTPMGYGT/VNLHGVPNGET/PVTCAGIGCTPVEFATLSLL TGDPVFEDVAR/VALMR/LWBSRSIDGLVGNHIDVLTKGKVAQDAG IGAGVDSYFEYLKVGAILLQDKKLMAFLEYNKAIKRYNTRPDDW YLVNQMYKGTVSMVPVPSLEAYWPGLOSLGIDINMARTFINNY TWVQKGGPLPEFYNIPGYTVTEKREGYPLRFLIESAMLYRAT GDPTLLEIGRDAVSEIKISKVCGCFATIKDLRDKLDMNRMSF FLAETVYKLLVDPPTNFINNGSTPDAVITPYGBCILGAGGYI FHTFAHPIDPAALHCQCRLEKEQWVEVDMRFPSYLSKRSRFPQ XTVSSGSPWEPPARKPTGLFSPEHHDOAEKRPKQKVP/LPSSCP QPTFSK/LALGLQVFLDS*PLDNFFIFPFLRNLNYKLLATIKK K </p>
7035	92	1942	<p> ETSSMPFRLLTILLCALLCPHRAAGGSPSAPDPAHYRER KAMTHYHAYDSYLWNAFFPDELRPLTCDGHTWGSFSLTLDALD TLT/LTLFYQILGVNSSEQRVVEVLAQWPCSGPCLLRMAEBAARKL/LP RVUGLLLSAHLKSKKAGVVEVLAQWPCSGPCLLRMAEBAARKL/LP FQTTPTPMGYGT/VNLHGVPNGET/PVTCAGIGCTPVEFATLSLL TGDPVFEDVAR/VALMR/LWBSRSIDGLVGNHIDVLTKGKVAQDAG IGAGVDSYFEYLKVGAILLQDKKLMAFLEYNKAIKRYNTRPDDW YLVNQMYKGTVSMVPVPSLEAYWPGLOSLGIDINMARTFINNY TWVQKGGPLPEFYNIPGYTVTEKREGYPLRFLIESAMLYRAT GDPTLLEIGRDAVSEIKISKVCGCFATIKDLRDKLDMNRMSF FLAETVYKLLVDPPTNFINNGSTPDAVITPYGBCILGAGGYI FHTFAHPIDPAALHCQCRLEKEQWVEVDMRFPSYLSKRSRFPQ XTVSSGSPWEPPARKPTGLFSPEHHDOAEKRPKQKVP/LPSSCP QPTFSK/LALGLQVFLDS*PLDNFFIFPFLRNLNYKLLATIKK K </p>
7036	442	761	<p> CLAPLPSFCQIINHLAPSGRLRWALRGAPGN\LEGGDSIPT RNN\ERKAGCSQPC/PACQHGCRPPGVSP/LRDPHTPTLAPLPP PPPPPPPPPPRPPRPNRRG </p>
7037	442	761	<p> CLAPLPSFCQIINHLAPSGRLRWALRGAPGN\LEGGDSIPT RNN\ERKAGCSQPC/PACQHGCRPPGVSP/LRDPHTPTLAPLPP PPPPPPPPPPRPPRPNRRG </p>
7038	155	891	<p> GAGAASDSSGLRAADPFWKRRHHSQLRKRDRSQRAQFETTL QYNKLKKSDHLSVLAQKIQAEKHDPVNRHHSISPGHGDWINDUN LQEMQLRIKHQELTELKHKRGELAQ/RVIDLNNQMRKDRNQ OMNEAKIACBLQTLISDLETECLDLRTL/CLELRANQTLKDEYDA LOITPTALREKLRKLTIDTENQELVTRWMAEKAQANRLNARE*KR LQERASPAARACR\SSKGTSTSTTG </p>
7039	155	891	<p> GAGAASDSSGLRAADPFWKRRHHSQLRKRDRSQRAQFETTL QYNKLKKSDHLSVLAQKIQAEKHDPVNRHHSISPGHGDWINDUN LQEMQLRIKHQELTELKHKRGELAQ/RVIDLNNQMRKDRNQ OMNEAKIACBLQTLISDLETECLDLRTL/CLELRANQTLKDEYDA LOITPTALREKLRKLTIDTENQELVTRWMAEKAQANRLNARE*KR LQERASPAARACR\SSKGTSTSTTG </p>
7040	34	789	<p> KITTPRPFHRCSSGHSQNSVLSG/LPAPGXKLTALFVHSGSS GYESVNRDSEATGSSASSAODSTNSNSSVGGRCESLKTPPKRNS </p>

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7041	1	567	PGSQRRLTPALSDTSSPVKRPNSTGVNRVDDGLRSSPRGLG EPFETKYVEIDDERLQRRRGASKAMCPNAKIKLIEHRQORI AEVRKYEWMKRLSATQYMLDLPNKWLSEFDLEQVWELDSL YLEALECVTERLESRVNPKAHMMITCFDIT SGRVANGRRRAPAGGSLGRALMRRTQRRSRHRETDSWLTSEL NDGNDWRLNLQSVTESSLDLDTAELAGTEFVAEKINIKFV PASARTGLLSPEESORIKKLEENKQFLCTPRRPMNQNTTPEE LKQAEKNFLWNRQQLVRLESEKLLITPFERKLDPNRQLMRV TERSDIVVQIVDA
7042	7	345	PIHMAJALRADTITSPLEPHYQYLLLSASHG\ATSLHKGAL PLETVMTYVIPKSKYVLVVKPDQYQYPSENIDFPRLAENSASN DDLMAEVAISDYGDKLITELREKY
7043	2	2170	ARGMAARDSDSEEDLVSYGTGLEPLEEGERPKKPIPLADQTVRD EKORYKRFHGAFGSGFSAGYFNTVSKGOWTPTFVSSNRQAD KSVLGPEDFMDEEDLSERGIAPKAVITTDPAKTKDRIRERAK QLAATAPIPGATLLDDLTIPAKLSVGFELLRKVMQKGGQVGP RVKRRPRRQKPDGKVIYGCALPGSSSGSEGGEDDYLDPNVTF AFKDVTVPDFTPKDNVHGLAYKGLDPHQALFOTSGEHNLFSGG SERAGDGLGEGIAKGRKLGISQQAQFVGALEBEDDDIYATETLS KVDVLKDEPGDGLYGNTPAPRYQKESSEKDLRYVVKILDGF SLASKPLSSKTIYPPLEPRDTPRVITFWANTSESHLQV LSEAGKATPDGCTHSKQLNASKRAELLEGTPGQGSATVLEBF LSQSKKERIKENKQATDLKAAQLKARSLAQNAQSSIAQSPAAA AGHCSNNNAIGGGTATLKASNPKFAKDEPKRYDEPLVHMKG GQKDALERCLDPSMTWERSGRERDEFAAALLYASSHS\TSR THAKEEDSDQVEPRDQNDVDGKQSAVRMMFGKLTROTTFW HDKLLFQ/RLVGLPRVKRDKSYVFNFLTIPETASLPTTQASSE KVSQHRGPDKSRKPSRNDTSKHEKKEDSISEFLRLARSKAEPK QOSSPLVNKEESHAPELSAN
7044	276	734	EVYLTDFPAGRKVADLYELVQYAGNIIPRELLITGVGVYVKS FPQSRKIDILKDLVEMCRGVQHPILGLFLRNLYLQCTRNILPOEG RPTDSEETGDISDSMDPVLNFAEMNKLAVRMHQGHSDREKR ERERQELILVGTMLVRLSQV
7045	3	513	LGFQIAELSRAGQEMSLAALKCHDPYTTISADLTGQVALYTFCP KANQWEKTDIEGTLPYVRRASPHYGFTIVNRLNHNLEVPVNK DLFQGLHEPFLYRNASLSIYSIFVDFNDCHRTAKLMADVVE ETRRSQQA/RSGQTESPQGMQLQFQAHHFGEAEGSGG
7046	3	513	LGFQIAELSRAGQEMSLAALKCHDPYTTISADLTGQVALYTFCP KANQWEKTDIEGTLPYVRRASPHYGFTIVNRLNHNLEVPVNK DLFQGLHEPFLYRNASLSIYSIFVDFNDCHRTAKLMADVVE ETRRSQQA/RSGQTESPQGMQLQFQAHHFGEAEGSGG
7047	103	486	QMKTECCWSEGLSTIKGNCHNFTATISKDTYKELKNLNSKN IMLDIVREIWEILRYQKIPKSNVPLDVGVALQMMPRDFKEKY NEVVKPSKSDS/IVPSYLAGVRSKKALDTAISLGFHSYV
7048	92	627	FFCLITLLSSWDYRHATRRVTSFVTFMEQSKTFSSEIEEANY WKDLAMTYKQRAENTQELREBPQSGSREYSELETQLQITRTR RDLISENNRLMELETTIKKEFVQHSBGYQI/SALEDIAQTKA IKQGLQYKILEQANDLERAKRATDHGLSKTTFQRLN\QAI EKVN
7049	393	938	KRTGSAYGGPPPLGSGPATXASVAGRCSSVGKIPARRCYDEEL VPVFEAVGRYTKRIAMDFQNRQVATVAVCHGKHEKRAVKEL NNYKIRPGRILGVCCSVLWGRFLGCGIIPVKKRSELELAKVT EGVLDIVYASAADKMKRGLRLRGVREPFGCHNLGRKLIAWK ASSLWG
7050	393	938	KRTGSAYGGPPPLGSGPATXASVAGRCSSVGKIPARRCYDEEL

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			VPVFEAVGRIYSLRLMMDFDGRNRYAPVMVYCHRIEAKRAVREL MNYIRPGRLLGVCCSVNDCRLFGIGGIPMKKREIEILSEIAKVT EGVLQVIVYASADKMKRNLRLRGVREPPRGCHWLRKLIAX ASSLWG
7051	119	815	KRWLAIEICDNARKGREYALLNGYDSSMYVYQVMOQTORHCCS VRDPAIKGKMQVQSGELLSEYEQVKSIVGTLSFKIDKPPDPFV SQCDSEFDRDPAWPPVPVASERAPQIR/RQSRKSTSEERNGR SRSPGTCRPS*\PISKSEKSPSTKDKDAVRAAPQIR ASDGEPMKFDGAGYDKLVEALERDVSRRPSIHNDACLEEA KKLLREAGVLPMM
7052	467	715	SCPGRGKSKLLNPEMTSRDYFDSYAHGTHEENLKDSEVRL TYRRSMYHNKHVPKDKVLDVGGSGTGLSHFAAQQYR
7053	467	715	SCPGRGKSKLLNPEMTSRDYFDSYAHGTHEENLKDSEVRL TYRRSMYHNKHVPKDKVLDVGGSGTGLSHFAAQQYR
7054	1	1036	QTSORRETDARRSAGAEPTARLPWPAALSEWSPSCPEPLGF RRCRNDAMEYDEKLARFRQAHNLNPFNKQSGPRHQGGGSEVFD VTPREALFELPGEPEFRCPERVMDGLGSEDFSRPVGLFLASD VQQLRQATECEKQVILELPQSEKQDAVRLIHLRLKLGSEKD FHEDEPNIRVLEHRFYKEKSKSVKQTCCKNTIINGLIQTNYT CTGCTTRCESKCLMLISKPCVSKSVKHDAEYBLNCPBTGLDSQ DGRCAECRAP / CS /GVVPSBARQCDYTGQVYCSHCHWDLAV IPAEVYHNDVFEPRKVSRCSEVYLAIVGAPYTLALREIN
7055	2	527	DSRRVSWESLANE/WGNHLCPIWLSNVLNLFKRTFLYNGQF EYHYLHOMLG/ALCLSRASASVIMHMCSLILLPMCRLLAYLRG SQKVPSSRTRERLLDKSRTHITOGATCIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDRKLLFTTVPGLGVCMVEVFL M
7056	2	527	DSRRVSWESLANE/WGNHLCPIWLSNVLNLFKRTFLYNGQF EYHYLHOMLG/ALCLSRASASVIMHMCSLILLPMCRLLAYLRG SQKVPSSRTRERLLDKSRTHITOGATCIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDRKLLFTTVPGLGVCMVEVFL M
7057	1368	431	GTYLHVNKIPRPTICIGRQENKNNLNLNHRDQELLHASCQA SGEVNPSQASLRGFFTEDEPGCFGBENLPAALN-QDEGTGEQL SPOELISEKLGQHLNPNHSGEMSNWLEKRETSQKQGPAPM ACKLPTCRCKGNTYVNSQLIFHORHTGTGTCTCKKAFRL SSDPVQHORIHTGEKCKCDYOSKQSDPSGLRHRKLIHTGEKP YKPCICEKSFORSNPNRHRVHTGKPKYKCSHCKGSNWSSEL DKHORSHLGKKFFQ*PVTKLSPFISISQPSHKNTQLHSELCRL GYPC
7058	1	469	PSGFGAVFDALGCRMSDLRTTEAFYLMVDFCFRAICCKGPPAP PEYDLVCIIGTSGKTSILSKLCSSEPDVSTTGFSGIKAVDPFO NATLNVKLGADNIRKYWSRYQSGQVIFVLDSSASDDLEA ARN*SCQLLQHPQLCTLFLLIA
7059	1	1178	WPAPRQPAARFAMDALLGTGPRARRGCLGAAGPTSSGRAARTPA APWARPSANLSCVCVVTFDLSLQALELVTPNDFRITDKESKS CYLSFPDPSHSGCLGDTQFSFRMQCGQGRSPWHAADRRHYNRAP VALQREPAHYPGVYVPRQVDSVKRGYFOKSLVLVSLRPLFVRL FQALLSLIAPRYFDKLAAPCLEAVCSSEIDQWPAFAGQTINLLEVN GVVVQVRLPSRVDSKSSPPKQDQENMLPAPVVLASVHELELLF RCFRPVLITMGQTLKELMLAPLVLVAPSVGSSEMLVLTSC QLRFPCCDFRYPYTHDSEKRTTACVAPVYVCTTPFFTK TLQHNPILRLVGEPRMNGDLKPKVLLKKPFVYRWDTQ
7060	90	1670	SVNLPFSLNPFNEAMDSSTKSEPKKSGSEARQNTFYKYLNPQSG YRFEHLVTOMKWLQSGREARVQYGVVENDGLLVGLAEEMRAS

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			LKTLHRMAKVGADITVLKEREVIDSDMPKRTIEVLVRKVPDN QQFLDLRLVAVLGNVDGKSTLLGLVLTQGLDNGRGRARLNLFRH LHEISQSGRTSSISFEILGFNSKGEVINGTQWQTLRMGK*** RT*DGGRVWRLFEIV*MNALRLGL*TSAPLRKSKGQLN*IKNG VLLKRGKPGNGLGPGNSGQVGRGRHR*GPWALGQVNVYSDSR TABELCSSSRMITFDLWQHKKYLAHTTIFGLTSYCPDCALLLV SANTGLNSTRRELLOLALALAKVPFVIVSKIDLCAKTTVERTVR QLEVLKQPGCHKVMVMTSEDDAVTAQQPAQSPNVPFETLS SVSGESLDLLKVLNLLPPLTNSKQREKLQQLTEFQVDEIVTV PEVGTUVVGTLGR*IDLLATLPTOPSPFIYKTSNPKGGDPI
7061	364	710	ARMPSPFLQPFCLPVMDEPTLEEEPEAKLRFGEQYQVAGPRE ALARLRELCQOQPEAHSKEQMLEMLVLEQFLGTLPEIQAMV RQORPGSPERAAALVEGLQHP*ARMFSPGLPGCLPVMDEPTLL EEPSTARLRFPGCYQVAGPREALARLRELCQMLEQPEAHSKE QMLEMLVLEQFLGTLPEIQAMVGRQPGSPERAAALVEGLQHPD PQLLG
7062	71	744	AKAGTNLERLHWIYFFCLPKHLEKSSQKQKRVQMACTQAGBR TAILYLTQNWRLDEATDSFQNDPSLHRESHRNAVDEKKLERL YGRKDPQDENKIGVIGIQQFCDDLSLDPASISVLVIAWKPRAA TQCFSRKEFLDGMTLGLCDSMEKLLALLPLESQELKDTAKFKD FVQCTTFAKNPGQGLDL*MGATYKIVLSGRKFLLYNTWFL MEHS
7063	2	562	LRTVPDLGRFFRANRTQRR*PELFDNLSLEQDLKAFERR LTEYIHCLQPATGRMRMLLVVSVCTATGAMWNLIDPETQKVSF FTSLNWHPPFTTISCITLIGLFFAGIHKRVVAPSIAARCTVLA EYNSCDDTGLKLIKPRPHVQ*QSLIVMGLIAFIRISDTAKS HKGFLRLDM
7064	300	884	RTDGSDFSTRILCTCCTCGH*PABETASPHSRGICPPASSAS SRRTGCWTCPPESGHAQARRSRASRWGARGAVRSVAARGC SSEAGRWLETPORRRGPPACAAAAGRLGPGAP*ADPTASVAPR CRCPAARTGAPAAKTWLEPRLSGLRAPALGRRSFGSPSPKSAAP PLLTFLGAGRAGGSRANS
7065	1	555	ATTTSHARKSGRGAALAAASAAAGGQKQKQKQKXWGRRTTFFG RQSGEPDAPPKQKSEAAFAHARSVAQVQPMQMNIDAPDEL FTKLRLIQKSPQGVFKIGNRTQOVVAIKIIDLEAEDIEDIEDI QOETVLISQCDSSVYTKYQSYLKGSKLMINEYLQGSALDILL RAGPFDFEQ
7066	356	676	PGQPGFWHARGGHFLDPADHFPAPASLRSNVRKATMTCDT YNQKHSLEFNAMRPIGAVEMDQTVNVPSLLRDVLADPLGLND VGVEVGSGGCLERTFP
7067	152	973	KENITMATEIGSPFFPFHMPRPOHOAPOLFVYKRFDFQAQQAMQ CLTFDGKMRKAVNRKTIIDYNPSVIKYLENRINQRIQRMRAIQ PDAGYNDLVPPIGMINNPNNAVTFTEFVSTNKVKCFVFFVVRV TPEGRLVTGASSGFTLVNGLTFNFETILQANDSPVRAWNTWSH NUMMLLTADIGCVKYQWSNQNVMQFNKIEATREARFHNIPF FSVPVIMVKLFSCILGABHMLGQLGLNPLRPINTIFFVFFVT HSPFCNAFF
7068	222	816	DTMKEYVLLLLFLALCSAKPPFSFHIALKNMMLKDMETDDDDDD DDDDDDDDDDDNSLFPTEPRSHFFFPDLFPNCPFGCQYYSRV VICSDDLSTSVFTNIPFTRMLDLQNNKIKEIKENDFKLTSLY GLILANVKLKHPIHKAPLITKELRLYLSHQLSLSDPLNPKSL AELRIEMKVKIKQVTKFK
7069	1147	1765	FEHRRRYFVYNQSGSQWEPFDGDETEETESACANDETLLAKO TLKDKTGTDSNSTESSETSTGSLCKESFSQGVSSSLMLPTFK TILQSNVVLQPLPLEMPPPPPPPPSPPPPPPPPPPPAPKMPFP

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7080	200	595	ARVLQMTVDHLKMLHATGGTGHALLFQASFTQQIF VQLPLEAPCLSLSSCRDHSOGNRLERRHRDCRVYGSFQOQIPY LTHPLCHQDVSVGRQLQIRALATPGHTQGHVLYLLDGEFPYKQPS CLFSGDLLFLSGGGEFFPKREELGEGKTEVRAATVPWRALXP
7081	213	506	AVTEEMILNLSLCYHNKLI LAPHYRVG/LFMRLLADLVGADI VCEILLDLKMICKRVVNEVLSTVDVFADDRVFRVTCREQN RVTFQMTS
7082	3	1137	APSANTMLMNCRGPVLLC/RQ/C/TNSFLNHLQCEPFEQASL CCRSSPRDLRDGEREHAQAQKAPAESCPSLPGLSIDGTGCL SSLENLR/LPTLREESSPRELSDSGQCGROPTHQGSDFNLS QAQSAFTEVERHVPSCSTSRERPFQAGELI/LAETGEGETKFKK LFR/LNFG/LNSNMGAVPPGKIVGKFPQILRSFQKQYMLRRP ALEDYVVLKRGTAITPPKINILMMDINDPGD/VLEAGSGSG GMSLFLSKAVGSGQRV/SFEVRKDHDLAKKFKYKWRDWNLSH VEEWPNDV/FHKDISGATED/KSLTFDAVALDMLNPHVTLVPF YPLHKGVCVPPVVNITQVIELD
7083	115	541	RSNAVQLTRMEYAMKSLSLYPKLSRRHVSVRTSVVTOQLLSE SPKAPRARP/CRVSTADRSVRKIPMAYSEDLILKVRDITMLADK PFPLVLEEDGTTVETEEYFQALAGDT/VFW/LQKQKQWFPSPSQ TRP/LSLSHK
7084	3	522	NSVSSSGQ/LASVSGTGVQSSAAD/ASSTAAGKQRI/PKVK VHKAPAPVQ/TAEQLLEAKREL/LALFPPQKQITDEEELND YKLAKRKRTFEDNIRKNT/VLSNWLKVAQ/EEGLKSTQARSYE RALDVDRNITLMLKYAEMENNNQ/VNIRININDRATITTL
7085	243	1499	ROLARLRERGWRSPFGGA/PAHITITNQVLQGYEAIDBRGASC AELVSFKHPVANPRLQMASPEEQCVLSEPYDMFAHLACT YAVGNHDFIEAYKQ/TIVQSF/LRA/PQARKEENWAL/PMTYVAL DLRVFANNADQQLVKGKSGVMDLSEKAEELMS/CFRVCASDTR AGIEDSKWGMFLVNQLFKIYFKINKLHCKPL/IRATDSNLK DDYSTAQRTVYKYVRKAMPDSDFKQAEVLS/FAFECHRRSSQ KNRMILITLPLVPMLLGHMPTVELLKKYHLM/QFAEVRABEG NILLLHEALAKHAFF/ROGIFPLILELKIITVNLFLKKVYLLI KTHGSLDRL/VALKFMQVEDV/IDEVQC/LANLIYMGHVKGZI SHIQIC/LVSGKNFPPLSTGC
7086	256	525	TLAARWQKMSKLAPEVMDILELSTDFTEHSIQEWYGFRLDCE SGLHSMEEFKKIKYGNFFYQDASKFAE/VKRTFDANG/OTIDFR EP
7087	166	723	LSGSEAGKVAAPCVPPSNHELVPIT/ENAPKVV/KGEGRAGG NTRKSLDNGSTRVTPSQPHLP/INNSVSTNEDSCLELNVY VTERIIAVSFPS/TANEENFRNMLREVAQMLKSKHGSGNLLPHLS ERRRPDITLKEKVLFPDLITALEXICSIKCAMDITLWNAHP HRCRVLENKG
7088	104	759	GTSASPSLLEMAGETIT/CELYSSYVGLVFNPLIVGTGALT MPKAFATAGVLVSLVLLVFLGFS/NTTTFVLEAMAJNQLHN KHMLNKEEDDDSS/TASDSDVLRDNYRAEKKPLSVORRGS PNPPEITDRVMGQMAQMFNKG/VGNLFPYFCIIVLYGDIAYIA AAVPFSTMQVTCATGNDSCGVRAITKYNIDRCRGFLRRVD
7089	33	1775	SVCNEDRYLKARNEESPLSRAPSGQVNFVNAVITYIPNTKVEC HYTLPPGMPASDMIGIFKVEACARVDHYTFVNSVPESITDGS SEITHVQFQASV/KPQGAQLQRYVNRGGVCGSPFPQFQRE PFWDELVTLEADGSDILV/VKATV/LNGLLESQQRNEM QLKQLQEQVTEILRSVQCELEALATARGHTELMKCYKISRS HOETTEEDILSKQGDHVARILKLEDDIQTISERVTKTEVLD RLRDTVKALTRQCKLI/GOIKVEQADKEQSEALQVQACEVNHIL NIDLKEAKSWCBEQSAQAQRLKDKVQMKMTIGQAQQRVALEP

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			LKEQLRGAQELAASSQQKATLIGBETASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKSEKQNSKERAGLLQSVAEKDKILK LSAELIRLEKAVQERTONOVFKTELAREIDSILVQLSESKREL TELSALRVLQKEKEQLQSEKQLLEYMRKLEARLEKVADEKNN EDATTEDEEAAVGLSCPAAITDSSEDSPEMDLHPAFVSVETQ ASLLGLG
7090	33	1775	SVCHEDRYLKARMEESPLSRASFGQVNFANVATYIFNTKVC INTLPPOTMPSASDWIGIPKVRACVRYHTFVASSVPESITDG SPIHTSVQFOASLYPKPGAQLYQFRVVRQGCVCQSPPTQFRE PRFMDLVLEADGGSDILLVVPKATVLQQLDESQQSRNDLM QLKLQLEGQVTELSRVQELERALATARGEITELMEQYKISRS HGEITEERDILSRQGDHVARILELDDIQTISEKVLTEVSLD RLRDTVKALTRQEKLLGLQKEVQADKTPQSEALVQVQAEHHL NLDLKRAKSWQEQSAQAQRLLKDKVAQKDTLGGCAQVRAEPL LKEQLRGAQELAASSQQKATLIGBETASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKSEKQNSKERAGLLQSVAEKDKILK LSAELIRLEKAVQERTONOVFKTELAREIDSILVQLSESKREL TELSALRVLQKEKEQLQSEKQLLEYMRKLEARLEKVADEKNN EDATTEDEEAAVGLSCPAAITDSSEDSPEMDLHPAFVSVETQ ASLLGLG
7091	186	1076	EGMLTREHRCRSEEOLEPHFSFKAKSRNLANGFPRKMSF EPDASGQSLVPVYVYSPEYVSMCDSLAKPIKASMVHSLISAY ALHKQMRIVKPKVSMEMMATFHTDAYLQHLQKVCSEDDDDPHD SIEYGLGVDCPATEGIFDYAAIGAAGATTAAQCLIDGNCKVAIN NSGGWHAKKDEASGFCYLDNAVGLRLRLRRKFERILYVDLDLH HGDGVEDAFSPTSVMVTLRHFS PGFTPGTGDVSVGLGKGRY YSVNVPIQDGIQDEKYQYICRYEFPANFGL
7092	522	809	KQGINSDQESQPRLEGGCEFSIKKQKLLKQKQWEEQRLA KQKRKKRKKRKLLEQCMPSINSGHDKRRVRDDVHSTRLI DCSFDXLM
7093	454	655	NEFVSGVELAQASQMVMSFVIAAQGLVGLGLMSTITSSIGNS ECQGLVCCEIRFWPTQSTYREA
7094	2	508	FVRSNHWGQVASSRCVULSWSQSIFFQSWAGSEFPSPYQ DIAPFLADYGGIMAGLSADPHWVNLTLTGALLAAATLLHE LLVIRKQEQEISKDALILKQFAPRNGVPSLSPCLKMETYLRM ADLYONYNGGKLQAQGNFPIEVNHEIVSGTEPII
7095	1	411	IASSLPKASTLQSRVLYLVQSKKVAIPLSQLYFCRYCSLELA SLCEVSEHVDHYCPCLENMPSAEKLKONCANCPGCPGMH TLSTRATSIQTLDPDAKTTMKKATYLACGFCRWTSRVDGKAD KSGVE
7096	224	2067	ETSLAVQEKPSQAGRRRSRISFAGALFLTRFLLELLNFC SAMSAPDAPAPASISLFDLSADAPVQGLSLVYAGRALAR APRTSCSGSQRERSPERKLLQPMQDSEKLFCSTCQQTQNHQR QRKHVYLWHRFNLKRLKDKPLSALDPEKQSSITGDLSSISGS EDSDSASEEDLQTLDRERATEKLSHPFGYPRKVLFCNAQQGF LYAYRCVLGFHQDPPEAEALLQQLQS KGRDVCVLMAGGHPA GAIPQGREVVHTKTHYTVIRAKRGTAQGLDARGGSPHSAGAN LSRYNKAATLYNDVLDLAGPSMAKALEAGTILRAPSRORSLEP FGKAGPLQKQDFALMFLATRRPTFCBLQVLIKILTLHAYE EDPREAVLHSGVTHWKKVYKSKTPEKIKKCKOKKALQ NEESPQSGSGEGDQFVLELVELTVGTLDLCSSEVLPKRRR RRKRNKKEKSDQKGAHRTLLQIQEQEESPQSSQAVAPLQPL LDEKAPGQFELWALLAACRAGEVGLIKLQAFSPADPVLISL LSAPLSSGGFTLLHAAANAGRSVHLLLSAGADPTVQCCDH
7097	256	1228	IRTKSAATWIAWPCQGRGSRITTEPCANAGSRQELCTERTSS FLAAGQDAFHSGLTNNNSSELPLRVGLKVAQSPLMGGQVSA

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			SNSFSRLHCRNANEDMMSALCPRLMOWPLHLHLSFGSHDNTMTC LNKKSPISEESRLQLLKNALPCTIRPVVLKNSVTQALDVTEQ LDAGVRYLDLRIAHMLEGSEKNLHFVIMVYTTALVEDTLTEISE WLERHFRFVILACRNPFEGLSDELHEYNACDKMIFGDMLCFRG EYPTLRLQMLSRQQVTVSYSEDESSLRHHEHLPGVVPYWGNGRVK TEALIRYLRLTKSCGR
7098	82	956	SSFLKKKRRVLCGNGIPSEQSLSLTLEAFKDKETDMYCVHRLGT BARSGFWAENRFPUNICRMATVDDDRGSSRSTCRCHPHPSLEA IVLLQDWPQGVCIGCTSLGSIWALLDYHRAALRTCLPSKPLLG LGSSVIYFDMLNLLMFRVLAVALFSALFPSTVALHFLGLMLVL LLMWNQGTDFMPDPSSEWLYRTVATILTVSWFNABGRTRGR ATIHFAFLSDSILLVATVWTHSSWLPSPGILPQLNLPVGGCFF LGLALRLVYTHLWLPSCCKKPPDQVD
7099	992	210	LFLRPLGFLRLSARQGYHQTNAPFFPSGATATMPAASRSRLA ARSLPSPARPFGNDALLGHDPRGGQVRAQRFPSSEPGPGAD GAVLEVHVPIGAGVSLPGILAAKCGAVILSDSSSLPHCLEVC ROSQOMNNPLHQLVGLTWGHISLDLALPPQDIIASDVTFPEP SDPFDLITATYFLMHKNPKVQLMSTYQVRSDWSLEALLYKDM KCVILPESDPAKDKIAESTLPGRHTVENLVISPAKDSI
7100	205	671	NMGVFWAARSGSEVSLFHWPTASHSKTALIGTASAPFPHLSVL FLFSPFPLQDPLGAPFPFKYDNGVAUSIECKVPSGLEPATY DWAFDLTKMTNQMYSQSEWGHDKREKREMTDDRAMYLLAWEN SSVVAFSHFRFDVERGDEVLYK
7101	2	503	NRGGPRAKELAGGAVGVVLLVGVGHSVRAGGQRPRAADMKKD VRILLVGEPRVOKTSLIMSLVSEFFPEVPVPAEEITIPADVTP ERVPTIHVDYSEASQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGQKSDLVEYSR
7102	2	503	NRGGPRAKELAGGAVGVVLLVGVGHSVRAGGQRPRAADMKKD VRILLVGEPRVOKTSLIMSLVSEFFPEVPVPAEEITIPADVTP ERVPTIHVDYSEASQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGQKSDLVEYSR
7103	119	438	GSQSSVAVNRISGTDSESDMLNQGASSVNTATASEKSSSESES LSDGSESLKKSFAVVFVVLKVTPEYAGQGITLMDVPVFKAIQF DLSGCGNNKKKYSSAP
7104	1670	795	RLNHEHLSVSGASGWSLSSPGCLLHLPSPLEERVDILINAGV MRCPHWTTGEPENQPGVNLGRWAGAAHWQA.LRRFPKVL GP*VVKSDLP.LILNPHGLF.LNLLDKLWASAPR.LINLSLA HVAGHLDPDLMWQTRKVTNKAAYCOS.KLATVLPFKELSRLO GSGVTVNALHPGVARTELGHTGHGSTPLQHN.WAHLAAMS KSPRSWPAPAQHTLAVAEELA.VISGKYFDGLKQKAPAPRAED BEAVARLWABEARLVGLEAPSVRSQPLER
7105	765	143	GOMCRKPSFGKSTCLSMTCDFP/RGLQDPQCLALPRVAVERHQA LLKAAMSGQGVDRHLFALYIVSRRHLQSPFLTVQHSBQQLST SQIPVQGMHLFDVHNYPDYSSGGGPGACDHGYGVSYIFMGDG MITPHISSKGSSTKTDHRIHQHTEDALLDVALFQAGQHFKRR PRGSGKENSHRICOPLSRQTGASKGMSSTD
7106	14	1064	GLQAGHPHRSASRIPEADTHYSKLQRAFSDIVNKHRRMPGT YFRVGFSGKFGDLSQRFFYKPAITKLFEISHRLEAFYGCFC GAEFENVIKDSTPVDKTKLDPNGAYIQTTFEVPFEYERMKDRV TYFERHNLKRMFTTTFELGRPRGELHEQRRNTVLTTHAP FYFKTRI.SVIQKREFFLFEVATSEKMKCLVALINQEPD AOLMLQVLQSGVATWQGVLEVAQVFLAEIPADPLFYRHNNKL RLCFKETMRKCGRAVSKKKRLVADQREYQER.KKNYNKLKXNL RPMIERKIPELYKPIFRVBSQKXDSFHRSSFKXCETQLSQGS
7107	1145	591	*I*WLGTTGKKK

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7108	1	942	VKVALLLTNLEQPRTESEWENSTFLKMLFQFVNLNSSTFTYAP FLGRFTGHPGAYLRLINRWRLSECHPSGLIDLQCMQGIIMVLK QTWNNFMELGYPLIQNNWTRRKVRQEHGPERKISFPQWEKDYNL QNNAYGLFDETELEMILQGFQTTIFVAFAPLAPLALANNIIRI RLDAYFTQWRPLASRNDIGIWWGILLEGSGILSVITAFVIAI ATTSDFTPLRVATKYTOPCAQGSBAQCKWVYVYASLSVFRIS DEFRSHPSDGSFESFOTPLKYCRYDVRDPPHSLVPYGTTLQF MRLW
7109	964	102	WDQRKNSLVFGPAHGAQEPKPKESLGAQAQALSTQLQPK TQPPFKSQVYLHFLSVVTRDGPDPFDKGLSPQPTTSVEQVP SRKLATDTSTFEATSEGTLELQQNPKARLRLNSPAQESFROM VVHKIPTGKKDHCECSCKGTPIYNSILVHQRVISGEKPYKC SDOGKTFKQSLNGLQHQRIHTGKPFECNECKKA7RAGNALVQR ORIHSGKPYRCNECKKAFSQSVLSQHRHISGEKPFCKEKG KAYGWSCLIRHRRVHARKEPH
7110	96	697	RLDFTSGFLVEVTKERHIVKPLVDYRLVQMLTASITPTVLG SPSTKRRQMLQPIIBGTAHFEEETKEEEDGYNLSSELGDMIL KTAIVQSSKMS ESDVERHQKIALDLRLSSSSAAKMPELLEQ LAWEARAKKLLKNTLBBFERAFYQGGNNAQKORVPLLEETRE YKLIKAKLLLEVLISKQSSSTI
7111	2	414	GSGLYAGPTPQGGCTHRKNSWPDTHERRFPPTFPALLENLTAS LKESLPSTDTLRFDQRYLEENIQAAQAKRIRIQLODRDRV MRENNIVHQARFFRQCTDSSGKEMWNTNTYWRLARHPYGNMD GAVLW
7112	103	495	PRCFVADRGRLGGLEDVVTIMSGTTLNLCTVFGNPDDEVTH PKNDODIQLSEHFSVKVEQAQVSMITIKVTSDESGKYISINIKN KYGGRKIDVTSVYKHGEKIPINAAQAPKPLIPASASAAGQ
7113	1	824	KCLQAVHEAPSSLAFTWCSSRRERAGEGGGNHRSITRDPKPP LRPSQRPMDDKKKRSKPKCLAQAPQAGTLRLVPVPTSHSGSL ALGLPHLPS2KQRAKPKVGEKCRPVLAGGSGSAGTPLQHSF LTEVTDVYVMEGGILNLNLDFHSQRLQAFKCECFQLEHVRBK QEKLAELHFSLDVCGEHRDEEDGVTGSLPBBQKMTADRNLD QGLSLNLAGSLALVPGNRRGGYTSQSSWALGERKGVVHGSK SGGDLPR
7114	3	1492	VWEVDROTDHYKESQDKPLQANAYGKETLKDESSQGEKTCRKI IYMLTDFVYSKQRLPKCYSWERCSKHILAFIQQRSTYRKKDDG CKAYWVKVCLHYNLHKAQAPRFPDPNQKQKALHQKQALHKSORS QIGKELKYCTEGKVFTQKANLVHQRHTHTGKPYECCECAKA7 SQKSTLIAHQRTHTGKPKPYECSECGKTIHQKSTLIHQHRTHTGE KPFVCDKCPKAFKSYHLIRHETHIRQAFYKGIKCTTSSLIYQ RIHTSEKPKQCSSEHGKASDEKPSPTIKWRTHTKENIYBCSCGKGS FRGKSHLSVHQRIHTGKPKYKSTICGKTIPTSGKSHLSVHRTHTG EKPYECRCKGKAPGSKSTLI VHQRHTHTGKPKYKNECGRAFSEK SPLIKHQRIHTGRRPYRCTDCKKAFSRKSTLIHQRIHTGKPKY KCSBCKAFSVKSTLIVHRTHTGKPKYRCDGCKAFSGKSTLI KHQRSHTGDKNL
7115	1	947	NAHGYHNGWLCMYIIPPDWLDGRDESAPIRTFAMIGCSFVVD RYFEGDGLDIPGMEVYGGENVVLGMRVWQCGSGMEVLPSCSRVA HIEKTRKFTANIDITYAKRNALRAARVMDPKSVYTMKNIIM SRPVDVFDVSRERLALRGLKCKSPKYLRLNVPYBMYVNTILC YGEVNSKASAYCLDQAGHGDRAILYPCMGSSOLVRYSDAGL LQIQLPGLGS TAPLPDSKCLVDDGTGRMPITLKKXEDVARPTQRLWD FTQSGPIVSRATGRCLLEVMSKDNANFLRLVQRCSGCKMMIRN WIKIDARI
7116	866	95	RVRMRNALVIEBKLSMKENAKRFPDRPKWGYPNIDPETDPTVY* PGSVINNI.SINTVREVDHLRDNSGSSSLNLTLES*SAWSSIR